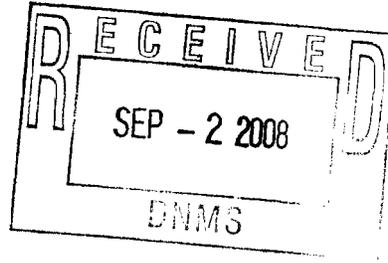




August 28, 2008



Ms. Jacqueline Cook
Nuclear Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region IV
Texas Health Resources Tower
612 E Lamar Blvd, Suite 400
Arlington, TX 76011-4125

Dear Ms. Cook,

SUBJECT: Amendment Request to License #30-29237-01

Lovelace Respiratory Research Institute has recently undergone some organizational and personnel changes necessitating modification to our license (License #30-29237-01).

At this time, we request the addition of Drs. Ling-Jen Ferguson and Yung Sung Cheng as authorized users and the removal of Dr. Kelly Dix. A summary of the experience and training each has had is included for review.

LRRI also requests an increase in possession limit for Line HH for I-123 to 1 Ci from 500 mCi.

If you have questions or require additional information pertaining to this request, please contact me at (505) 348-9578 or via email to emarshall@lrri.org.

Sincerely,

Elaine T. Marshall, CHP
Radiation Safety Officer

Curing Respiratory Disease

Lovelace Respiratory Research Institute

2425 Ridgcrest Drive SE • Albuquerque, New Mexico 87108 • Phone 505-348-9400 • Fax 505-348-8567 • www.LRRI.org

No 471932

ATTACHMENT

SUMMARY OF EDUCATION, TRAINING AND EXPERIENCE

Dr. Ling-Jen Chen Ferguson

Education

B.S. in Pharmacy, 1986, National Taiwan University
M.S. in Biochemistry, 1988, National Taiwan University
Ph.D. in Chemistry, 1994, University of Wisconsin - Madison

Formal Training

Between 1997 and 2003, Dr. Ferguson was a post-doc at National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, NC, receiving the Radiological Worker Training that was approved at the time.

Between 2004 and 2006, Dr. Ferguson was a contractor at NIEHS, receiving the Radiological Worker Training that was approved at the time.

Since 2007, Dr. Ferguson has been employed at LRRI where she has received periodic training in radiation safety. The majority of that time, the training was designed to satisfy the requirements as set forth by the Department of Energy. This training encompassed:

- Radiation Fundamentals
- Biological Effects
- Radiological Limits and Administrative Control Levels
- ALARA
- Personnel Monitoring Programs
- Radiological Access Control and Posting
- Radiological Contamination Controls
- Radiological Emergencies

Most recently, in January 2008, Dr. Ferguson participated in the Radiation Worker Training offered at Lovelace that was designed to meet the recommendations put forth in Appendix J of NUREG 1556, Volume 7.

Experience

During her postdoc and contract work at NIEHS, her research focused on ADME (Absorption, Distribution, Metabolism, and Excretion) studies of various ¹⁴C-labeled chemicals in rats and mice. She used HPLC with a radiochemical detector, NMR, and LC-MS to identify ¹⁴C-labeled urinary and biliary metabolites in these ADME studies

Here at LRRI, she worked on ADME studies of ¹⁴C-labeled chemicals and ⁵¹chromium in rats and mice.

CURRICULUM VITAE

Ling-Jen Chen Ferguson, PhD

Lovelace Respiratory Research Institute
2425 Ridgecrest Dr. SE
Albuquerque, NM 87108
Fax: (505) 348-4980
ljferguson@LRRI.org

EDUCATION

B.S. (Pharmacy) 1986, National Taiwan University
M.S. (Biochemistry) 1988, National Taiwan University
Ph.D. (Organic Chemistry) 1994, University of Wisconsin-Madison

EMPLOYMENT

- 2007 - Present Research Scientist, Preclinical Toxicology Program, Lovelace Respiratory Research Institute (LRRI), Albuquerque, NM
- **Principal Investigator and Study Director** for the Defense Threat Reduction Agency (DTRA) contract "Is Toxin Identification a Valuable Diagnostic Tool?" I communicate with the sponsor and collaborators, and prepare IACUC protocols.
 - **Study Director** for the National Toxicology Program (NTP) "Absorption, Distribution, Metabolism, and Excretion (ADME) Chemical Disposition in Mammals" contract. I communicate with the sponsor, prepare study and IACUC protocols, supervise technicians to carry out studies, and write manuscripts and quarterly reports.
 - **ADME studies of C¹⁴-labeled 5-amino-o-cresol, cumene, and ⁵¹chromium in rodents.** I supervise and conduct ADME studies of these radiolabeled chemicals in support of the NTP toxicity and carcinogenicity studies. I perform HPLC, NMR, and MS analyses for metabolite identification.
 - ***In vitro* rat and mouse liver and lung microsomal metabolism of cumene, 4-isopropylphenol, and α -methylstyrene.** I help to identify these microsomal metabolites, and investigate the mechanisms of metabolism and toxicity.
- 2004 - 2006 Research Chemist, Kelly Scientific (NIEHS contractor), Research Triangle Park (RTP), NC
- **ADME studies of C¹⁴-labeled polybrominated diphenyl ethers (PBDEs), n-butylglycidyl ether, and juglone in rodents.** I routinely used HPLC-UV- β RAM, NMR, and LC-MS to identify urinary and biliary metabolites in these NTP ADME studies, proposed biotransformation pathways, and prepared manuscripts for publication.
 - ***In vitro* rat liver microsomal metabolism of furosemide, ipomeanine, 4-ipomeanol, and juglone.** I performed rat liver microsomal incubations of these chemicals, identified the metabolites, and proposed mechanisms of metabolism and toxicity.

- 2003 - 2004 Environmental Project Scientist, ManTech Environmental Technology (USEPA contractor), RTP, NC
- **GC-MS measurement of hydrolysis rates of pyrethroid insecticides in rat serum.** I developed GC-MS methods to separate pyrethroid diastereoisomers and enantiomers, and measured their hydrolysis rates in rat serum by extracting and quantifying the chemicals at various time-points.
- 2002 - 2003 Research Fellow, NTP, National Institute of Environmental Health Sciences (NIEHS), RTP, NC
- 1997 - 2002 Postdoctoral Fellow, NTP, NIEHS, RTP, NC
- **ADME studies of C¹⁴-labeled menthofuran, pulegone, luminol, 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX), and 5-hydroxymethylfurfural (HMF) in rodents.** I identified the urinary and/or biliary metabolites of these chemicals in rodents in support of the NTP investigations.
 - **Mechanistic study of the toxicity of *o*-nitrotoluene.** *o*-Nitrobenzyl tosylate was used as a model compound to study a previously unexplored bioactivation pathway of *o*-nitrotoluene. One product from hydrolysis of *o*-nitrobenzyl tosylate is *o*-nitrosobenzaldehyde, a reactive molecule toward amines and thiols.
- 1994 - 1997 Postdoctoral Research Associate, American Health Foundation, Valhalla, NY
- ***In vitro* rat liver microsomal metabolism of furan.** I identified *cis*-2-butene-1,4-dial as a microsomal metabolite of furan and characterized several amino acid and glutathione adducts of this enedial.
- 1991 - 1994 Research Assistant, Department of Chemistry, University of Wisconsin-Madison
- **Study of N-isopropylated hydrazines and hydrazine radical cations.** I synthesized a series of N-isopropylated hydrazine radical cations, the first non-“Bredt’s-rule” protected hydrazine radical cations, and studied these radical cations using NMR, ESR, x-ray crystallography, and cyclic voltammetry.

PUBLICATIONS

1. Nelsen, S. F., L.-J. Chen, P. A. Petillo, D. H. Evans and F. A. Neugebauer: Conformationally Protected Hydrazine Radical Cations and the Gearing Effect on a Hydrazine Electron-Transfer Reaction. *J. Am. Chem. Soc.* 115: 10611-10620, 1993.
2. Nelsen, S. F., P. A. Petillo, J. De Felippis, Y. Wang, L.-J. Chen, M. J. R. Yunta and F. A. Neugebauer: Hydrogen Splittings of *bis*-Bicyclic Hydrazine Radical Cations. *J. Am. Chem. Soc.* 115: 5608-5615, 1993.
3. Chen, L.-J., S. S. Hecht and L. A. Peterson: Identification of *cis*-2-Butene-1,4-dial as a Microsomal Metabolite of Furan. *Chem. Res. Toxicol.* 8: 903-906, 1995.
4. Nelsen, S. F. and L.-J. Chen: On the Effective Size of Isopropyl and *tert*-Butyl Groups in an Unusual Steric Situation. *J. Org. Chem.* 60: 3263-3264, 1995.
5. Nelsen, S. F., L.-J. Chen, D. R. Powell and F. A. Neugebauer: 9-Diisopropylamino-9-azabicyclo[3.3.1]nonane and Tetraisopropylhydrazine: Isolable Radical Cations from Hydrazines with Nearly Perpendicular Lone Pairs. *J. Am. Chem. Soc.* 117: 11434-11440, 1995.

6. Nelsen, S. F., L.-J. Chen, M. T. Ramm, G. T. Voy, D. R. Powell, M. A. Accola, T. R. Seehafer, J. J. Sabelko and J. R. Pladziewicz: Intermolecular Electron-Transfer Reactions Involving Hydrazines. *J. Org. Chem.* 61: 1405-1412, 1996.
7. Nelsen, S. F., R. F. Ismagilov, L.-J. Chen, J. L. Brandt, X. Chen and J. R. Pladziewicz: Slow Electron Transfer Reactions Involving Tetraisopropylhydrazine. *J. Am. Chem. Soc.* 118: 1555-1556, 1996.
8. Chen, L.-J., S. S. Hecht and L. A. Peterson: Characterization of Amino Acid and Glutathione Adducts of *cis*-2-Butene-1,4-dial, a Reactive Metabolite of Furan. *Chem. Res. Toxicol.* 10: 866-874, 1997.
9. Chen, L.-J. and L. T. Burka: Formation of *o*-Nitrosobenzaldehyde from Hydrolysis of *o*-Nitrobenzyl Tosylate. Evidence of Intramolecular Nucleophilic Interaction. *Tetrahedron Lett.* 39: 5351-5354, 1998.
10. Godfrey, V. B., L.-J. Chen, R. J. Griffin, E. H. Lebetkin and L. T. Burka: Distribution and Metabolism of (5-Hydroxymethyl)furfural in Male F344 Rats and B6C3F1 Mice After Oral Administration. *J. Toxicol. Environ. Health A* 57: 199-210, 1999.
11. Sanders, J. M., L.-J. Chen, L. T. Burka and H. B. Matthews: Metabolism and Disposition of Luminol in the Rat. *Xenobiotica* 30: 263-272, 2000.
12. Chen, L.-J., E. H. Lebetkin and L. T. Burka: Metabolism of (*R*)-(+)-Pulegone in F344 Rats. *Drug Metab. Dispos.* 29: 1567-1577, 2001.
13. Lebetkin, E. H., L.-J. Chen and L. T. Burka: Disposition of 3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX) in B6C3F1 Mice and F344 Rats. *J. Toxicol. Environ. Health Part A* 65: 2101-2118, 2002.
14. Chen, L.-J., E. H. Lebetkin and L. T. Burka: Comparative Disposition of (*R*)-(+)-Pulegone in B6C3F1 Mice and F344 Rats. *Drug Metab. Dispos.* 31: 892-899, 2003.
15. Chen, L.-J., E. H. Lebetkin and L. T. Burka: Metabolism of (*R*)-(+)-Menthofuran in Fischer-344 rats: Identification of Sulfonic Acid Metabolites. *Drug Metab. Dispos.* 31: 1208-1213, 2003.
16. Chen, L.-J., E. H. Lebetkin and L. T. Burka: Metabolism and Disposition of Juglone in Male F344 Rats. *Xenobiotica* 35: 1019-1034, 2005.
17. Sanders, J. M., L.-J. Chen, E. H. Lebetkin and L. T. Burka: Metabolism and Disposition of 2,2',4,4'-Tetrabromodiphenyl Ether Following Administration of a Single or Multiple Doses to Rats and Mice. *Xenobiotica* 36: 103-117, 2006.
18. Chen, L.-J., E. H. Lebetkin, J. M. Sanders and L. T. Burka: Metabolism and Disposition of 2,2',4,4',5-Pentabromodiphenyl Ether (BDE99) Following a Single or Repeated Administration to Rats or Mice. *Xenobiotica* 36: 515-534, 2006.
19. Sanders, J. M., E. H. Lebetkin, L.-J. Chen and L. T. Burka: Disposition of 2,2',4,4',5,5'-Hexabromodiphenyl Ether (BDE153) and Its Interaction with Other Polybrominated Diphenyl Ethers (PBDEs) in Rodents. *Xenobiotica* 36: 824-837, 2006.
20. Chen, L.-J., E. F. DeRose and L. T. Burka: Metabolism of Furans in Vitro: Ipomeanine and 4-Ipomeanol. *Chem. Res. Toxicol.* 19: 1320-1329, 2006.
21. Ferguson, L.-J. C., E. H. Lebetkin, F. B. Lih, K. B. Tomer, H. D. Parkinson, S. J. Borghoff and L. T. Burka: ¹⁴C-Labeled Pulegone and Metabolites Binding to α 2u-Globulin in Kidneys of Male F-344 Rats. *J. Toxicol. Environ. Health Part A* 70: 1416-1423, 2007.
22. Chen, L.-J. and L. T. Burka: Chemical and Enzymatic Oxidation of Furosemide: Formation of Pyridinium Salts. *Chem. Res. Toxicol.* 20: 1741-1744, 2007.
23. Chen, L.-J., E. H. Lebetkin, E. I. Nwakpuda and L. T. Burka: Metabolism and Disposition of *n*-Butyl Glycidyl Ether in F344 Rats and B6C3F1 Mice. *Drug Metab. Dispos.* 35: 2218-2224, 2007.

24. Hedtke B., Z. Gao, L.-J. Chen, W. M. Weber, and K. J. Dix: Metabolism and Disposition of [¹⁴C]5-Amino-*o*-cresol in Female F344 Rats and B6C3F1 Mice. *Xenobiotica* 38: 171-184, 2008.

FINAL REPORTS

1. Disposition of 5-Amino-*o*-cresol in Female Rats and Mice after Dermal, Oral, and Intravenous Administration, August, 2007.
2. Disposition of Oral Doses of Chromium VI and Chromium III in Male Rats and Mice, May, 2008.

MANUSCRIPTS IN PREPARATION

1. Z. Gao, L.-J. Chen, H. B. Hoffman, B. Hedtke, D. J. Kramer, and K. J. Dix: Metabolism of [¹⁴C]Cumene in F344 Rats and B6C3F1 Mice.
2. H. B. Hoffman, L.-J. Chen, Z. Gao, B. Hedtke, D. J. Kramer, and K. J. Dix: Comparative Disposition of [¹⁴C]Cumene in F344 Rats and B6C3F1 Mice.

ATTACHMENT

SUMMARY OF EDUCATION, TRAINING AND EXPERIENCE

Dr. Yung-Sung Cheng

Education

B.S. (Chemical Engineering) 1969, National Taiwan University

M.S. (Chemical Engineering) 1973, Syracuse University

Ph.D. (Chemical Engineering) 1976, Syracuse University

Formal Training

The majority of his career has been spent at Lovelace Respiratory Research Institute or what was previously referred to as the Inhalation Toxicology Research Institute. During his employment at ITRI, Dr. Cheng has received periodic training in radiation safety, training that was designed to satisfy the requirements as set forth by the Department of Energy. This training encompassed:

- Radiation Fundamentals
- Biological Effects
- Radiological Limits and Administrative Control Levels
- ALARA
- Personnel Monitoring Programs
- Radiological Access Control and Posting
- Radiological Contamination Controls
- Radiological Emergencies

Lovelace has recently revised its periodic retraining to meet the recommendations put forth in Appendix J of NUREG 1556, Volume 7.

Experience

Dr. Cheng's research interests are centered in the following areas: 1) aerosol drug delivery; 2) design and test of air sampling instruments; 3) deposition in the respiratory tract; 4) air quality of ambient, occupational and indoor environments; 5) measurement of radon and radon progeny; and 6) inhalation toxicology. He is particularly interested in characteristics of airborne material that will influence its transport, collection, deposition and retention in human and environments. Dr. Cheng has been heavily involved in the design and operation of high-quality systems for animal inhalation exposure studies. More recently, he has been conducting studies on aerosol deposition in the nasal, oral and conducting airways, especially for those ultrafine particles and fiber aerosol. Pharmaceutical aerosol delivery system from formulation, design and evaluation of devices, deposition, and preclinical trials are also current research activities. Wind tunnel testing of air sampling instruments is also a focus of the research activities. As his publication list would indicate he has decades of experience working research projects using radioactive material that include plutonium isotopes, radium and its progeny, Tc-99m, and metal tritides.

| | |
|-----------------|---|
| NAME | POSITION TITLE |
| Yung-Sung Cheng | Senior Scientist; Program Manager, Aerosol and Respiratory Dosimetry Program, Lovelace Respiratory Research Institute |

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.*)

| INSTITUTION AND LOCATION | DEGREE (if applicable) | YEAR(s) | FIELD OF STUDY |
|--|---------------------------|-----------|----------------------|
| National Taiwan University, Taipei, Taiwan | B.S. | 1969 | Chemical Engineering |
| | M.S. | 1973 | Chemical Engineering |
| Syracuse University, Syracuse, NY | Ph.D. | 1976 | Chemical Engineering |
| Syracuse University, Syracuse, NY | Postdoctoral Fellowship | 1976-1978 | Aerosol Science |
| University of Rochester, Rochester, NY | | | |

Positions and Honors.

Positions and Employment

| | |
|----------------|---|
| 1978 - 1989 | Aerosol Scientist and Chronic Exposure Section Supervisor, Inhalation Toxicology Research Institute, Albuquerque, NM |
| 1989 - 1996 | Senior Scientist and Aerosol Program Manager, Inhalation Toxicology Research Institute, Albuquerque, NM |
| 1996 - Present | Senior Scientist; Program Manager, Aerosol and Respiratory Dosimetry Program, Lovelace Respiratory Research Institute, Albuquerque, NM |
| 1998 - Present | Director, Aerosol and Respiratory Dosimetry Program and Inhalation Drug delivery center, Lovelace Respiratory Research Institute, Albuquerque, NM |
| 1992-present | Clinical Professor, School of Pharmacy, University of New Mexico, Albuquerque, NM. |

Selected peer-reviewed publications (in chronological order).

3. **Cheng YS**, Barr EB, Carpenter RL, Benson JM and Hobbs CH: Improvement of Aerosol Distribution in Whole-Body Inhalation Exposure Chambers, *Inhal. Toxicol.* 1:153-166, 1989
4. **Cheng YS**, Barr EB and Yeh HC: A Venturi Dispenser as a Dry Powder Generator for Inhalation Studies, *Inhal. Toxicol.* 1:365-371, 1989
5. Su YF, **Cheng YS**, Newton GJ and Yeh HC: Diffusion Coefficients of Lead-212 Clusters in Purified Air Containing Defined Amounts of Water Vapor, *J. Aerosol Sci.* 21:785-788, 1990
6. **Cheng YS**, Su YF, Newton GJ and Yeh HC: Use of a Graded Diffusion Battery in Measuring the Radon Activity Size Distribution, *J. Aerosol Sci.* 23:361-372, 1992
7. Hopke PK, Ramamuthi M, Knutson EO, Tu KW, Scofield P, Holub RF, **Cheng YS**, Su YF and Winklmayr, W: The Measurement of Activity-Weighted Size Distribution of Radon Progeny: Methods and Laboratory Intercomparison Studies, *Health Phys.* 63:560-570, 1992
8. **Cheng YS**, Su YF, Yeh HC and Swift DL: Deposition of thoron progeny in human head airways. *Aerosol Sci. Technol.* 18: 359-375, 1993
9. **Cheng YS**, Yu CC and Tu KW: Intercomparison of Activity Size Distributions of Thoron Progeny by Alpha- and Gamma-Counting Methods, *Health Phys.* 66:72-79, 1994

10. **Cheng YS**, Yu CC, Tung CJ and Hopke PK: Neutralization of Thoron Progeny in Gases, *Health Phys.* 67:15-161, 1994
11. Benson JM, Barr EB, Bechtold WE, **Cheng YS**, Dunnick JK, Eastin WE, Hobbs CH, Kennedy CH and Maples KR: Fate of inhaled nickel oxide and nickel subsulfide in F344/N rats. *Inhal. Toxicol.* 6: 167-183, 1994
12. **Cheng YS** and Chen BT: Aerosol sampler calibration. In *Air Sampling Instruments*, 8th Ed. (B. S. Cohen and S. V. Herring, eds.), pp. 165-186, American Conference of Government Industrial Hygienists, Cincinnati, OH, 1995
13. **Cheng YS** and Moss O: Inhalation exposure systems. *Toxicol. Methods* 5: 161-197, 1995
14. **Moss, OR and Cheng, YS**: Generation and Characterization of Test Atmospheres: Particles, in *Concepts of Inhalation Toxicology* (R.O. McClellan and R.F. Henderson, eds) pp 91-126, Taylor and Francis, Washington, DC, 1995
15. Wasiolek PT and **Cheng YS**: Measurement of the activity-weight size distributions of radon decay products outdoors in central New Mexico with parallel and serial screen diffusion batteries. *Aerosol Sci. Technol.* 23: 401-410, 1995
16. Cheng KH, **Cheng YS**, Yeh HC, Guilmette RA, Simpson SQ, Yang SQ and Swift DL: *In vivo* measurements of nasal airway dimensions and ultrafine aerosol depositing in human nasal and oral airways. *J. Aerosol Sci.* 27: 785-801, 1996
17. **Cheng YS**, Chen TR, Wasiolek PT and Van Egen A: Radon and radon progeny in the Carlsbad Caverns. *Aerosol Sci. Technol.* 26: 74-92, 1996
18. Chen, TR, **Cheng YS**, Hopke PK, Tung CJ and Pourprix M: Electrical Mobility and Size Distribution of Aged ²¹²Pb Nanometer Carriers in Nitrogen Gas. *J. Aerosol Sci.* 28: 465-477, 1997.
19. Cheng, Y S: Wall Deposition of Radon Progeny and Particles in a Spherical Chamber. *Aerosol Sci. Technol.* 27: 131-146, 1997.
20. Smith, SM, and **Cheng, YS**: Generation of ²¹²Pb Attached Ultrafine Particles for Deposition Experiments, *Aerosol Sci. Technol.* 29: 442-448, 1998
21. Kropf, RF, Wang, Y, and **Cheng, YS**: Self-absorption of Tritium Betas in Metal Tritide Particles, *Health Phys.* 75:398-404, 1998
22. Chen, TR, **Cheng, YS** and Tung, CJ: Nanometer Particle Size and Concentration from Thoron Progeny, *Aerosol Sci. Technol.* 28: 173-181, 1998
23. **Cheng YS**, Snipes MB, Wang Y and Jow HN: Biokinetics and dosimetry of titanium tritide particles in the lung. *Health Phys.* 76(2): 120-128, 1999
24. Mitchel JP, Nagel MW and **Cheng YS**: Use of Aerosizer Aerodynamic Particle Size Analyzer to Characterize Aerosols from Pressurized Metered-dose Inhalers (pMDIs) for Medication Delivery. *J. Aerosol Sci.* 30: 467-477, 1999.
25. **Cheng YS**, Chen TR, Yeh HC, Bigu, J Holub, R, Tu KW, Knutson EO, and Falk R: Intercomparison of Activity Size Distribution of Thoron Progeny and a Mixture of Radon and Thoron Progeny. *J. Environ. Radioact.* 51: 59-78, 2000
26. **Cheng YS**, Fu CS, Yazzie D and Zhou Y: Respiratory deposition patterns of salbutamol pMDI for CFC and HFA-134a formulations in a human airway replica. *J. Aerosol Med.* 14: 255-266, 2001
27. **Cheng YS**, Holmes TD, Gao J, Guilmette RA, Li S, Surakitbanharn Y and Rowlings C: Characterization of nasal spray pumps and deposition pattern in a replica of the human nasal airway. *J. Aerosol Med.* 14(2): 267-280, 2001

28. Inkret, WCT, Schillachi, ME, Boyce, MK, **Cheng, YS**, Eford, DW, Little, TT, Miller, G, Musgrave, JA, and Wermer, J.R.: Internal Dosimetry for Inhalation of Hafnium Tritide Aerosols. *Radiat. Prot. Dosim*, 93:55-60,2001
29. Smith S, **Cheng YS** and Yeh HC: Deposition of ultrafine particles in human tracheobronchial airways of adults and children. *Aerosol Sci. Technol.* 35: 697-709, 2001
30. **Cheng YS**, Zhou Y, Wang YS, Inkret WC, and Wermer JR: Dose Estimate of Inhaled Hafnium Tritide Using the ICRP 66 Lung Model. *Health Physics*, 82:817-824, 2002
31. Zhou Y and **Cheng YS**: Dose Assessment for Inhaling Hafnium Particles Based on Laboratory Rats Study. *Health Physics* 84:469-476, 2003
32. **Cheng YS**, Yazzie D, Gao J, Muggli D, Etter J, and Rosenthal, GJ: Particle Characteristics and Lung Deposition Patterns in a Human Airway Replica of a Dry powder Formulation of Polylactic Acid Produced Using Supercritical Fluid Technology. *J. Aerosol Medicine* 16:65-73, 2003
33. **Cheng YS**: Aerosol Deposition in the Extrathoracic Region. *Aerosol Sci. Technol.* 37:659-671, 2003
34. Kirkpatrick B, Fleming LE, Squicciarini D, Backer LC, Clark R, Abraham W, Benson J, **Cheng YS**, Johnson D, Pierce R, Zaias, J., Bossart, G., and Baden, DG: Literature Review of Red Tide: Implication for human health effects, *Harmful Algae* 3(2), 99-115, 2004
35. Zhou Y and **Cheng YS**: Dosimetry of Metal Tritide Particles as Evaluated by the ICRP 66 Model and a Biokinetic Model from Laboratory Rats, *Health Phys.* 86:155-160, 2004
36. **Cheng YS**, Guilmette, RA, Zhou, Y, Gao, J, LaBone, T, Whicker, JJ, and Hoover, MD: Characterization of Plutonium Aerosol During An Accident. *Health Phys.* 87:596-605, 2004

SEP 11 2008

DATE

This is to acknowledge the receipt of your letter/application dated 8-28-08, and to inform you that the initial processing, which includes an administrative review, has been performed.

There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card:

The action you requested is normally processed within 90 days.

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 471932.
When calling to inquire about this action, please refer to this mail control number.
You may call me at 817-860-8103.

Sincerely,

Colleen Murnahan
Licensing Assistant

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

: (FOR LFMS USE)
: INFORMATION FROM LTS
: -----
: Program Code: 22110
: Status Code: 0
: Fee Category: 3M
: Exp. Date: 20160830
: Fee Comments:
: Decom Fin Assur Reqd: Y
:

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: LOVELACE RESPIRATORY RESEARCH INST
Received Date: 20080902
Docket No: 3037312
Control No.: 471932
License No.: 30-29237-01
Action Type: Amendment

2. FEE ATTACHED

Amount: _____
Check No.: /

3. COMMENTS

Signed Colleen Murahan
Date 9-03-08

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 _____



★ ★  **DISNEY BOWES**
★ ★
1780 U.S. POSTAGE PB5532286
0908#00.760 AUG 29 2008
1856 MAILED FROM ZIP CODE 87108

E. MARSHALL
Lovelace Respiratory Research Institute
2425 Ridgcrest Dr. SE
Albuquerque, New Mexico 87108

RECEIVED
SEP - 2 2008
DNMS

Ms. Jacqueline Cook
Nuclear Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region IV
Texas Health Resources Tower
612 E Lamar Blvd, Suite 400
Arlington, TX 76011-4125

