



U.S. Department of Homeland Security
UNITED STATES SECRET SERVICE

Washington, D.C. 20223

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950 H St. NW
Washington, D.C. 20223
October 10, 2006

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REGION 1
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Licensing Assistance Section
Nuclear Materials Safety Branch
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Sir or Madam,

This letter is to request an amendment to U.S. NRC Byproduct Material License No. 08-28066-02 Docket No. 030-33554. We request that the approved Radiation Safety Officer be changed-

From: Joel Zlotnick
To: Tyra McConnell

Mr. Zlotnick has moved to a new employment within the U.S. Secret Service and is no longer working with the Criminal Investigative Division. Enclosed, please find Ms. McConnell's curriculum vitae. Ms. McConnell is currently waiting to receive the required Radiation Protection training given by USCHPPM as soon as their next course is available. As soon as this training is completed, we will submit the NRC Form 313M Supplement A.

If there are additional questions regarding this amendment request, please contact Counterfeit Specialist Douglas Albright at (202) 406-9027 or Counterfeit Specialist Tyra McConnell at tyra.mcconnell@uss.s.dhs.gov.

Thank you for your continued assistance.

Sincerely,

Craig D. Magaw
Special Agent In Charge
Criminal Investigative Division

139569
NMSS/RGNI MATERIALS-002

Tyra S. McConnell

Email (W): tyra.mcconnell@usss.dhs.gov

Education

GEORGE WASHINGTON UNIVERSITY Washington, D.C.
August 2001

Master of Science in Forensic Science
Concentration in Forensic Chemistry

GALLAUDET UNIVERSITY Washington, D.C.
May 1997

Bachelor of Arts in Chemistry
Graduated Summa Cum Laude

Professional Experience

U.S. SECRET SERVICE Washington, D.C.
March 2004 to present

Counterfeit Specialist

- Perform forensic examinations on U.S. Treasury Obligations which involve authenticating genuine Federal Reserve Notes and classifying counterfeit notes by their printing processes and defects.
- Provide Counterfeit Detection training to U.S. Secret Service Agents, national and international law enforcement personnel, and international banking community.
- Provide technical support to USSS Field Offices on genuine and counterfeit Federal Reserve Notes via e-mail communications.

U.S. SECRET SERVICE Washington, D.C.
September 2002 – March 2004

Document Analysis Technician

- Responsible for the maintenance and upkeep of the U.S. Secret Service International Writing Ink Collection. Duties included receiving, inventorying, and performing chemical analysis of all samples of new writing inks submitted by manufacturers; obtain and compare open market purchases to the writing ink collection; ensure the existing database of writing ink manufacturers was current and completed through contacts with industry representatives; and re-run existing library samples using thin-layer chromatography on a continuous basis.

- Assisted examiners with chemical and instrumental analyses as needed.
- Periodically ran standards and documented the usage for various instrumentation including FTIR, SEM-EDAX, GC/MS, ESDA, video spectral comparator.
- Assisted examiners in acquiring chemicals, chemistry supplies, and gases.
- Created inkjet database containing information about inkjet printers of different manufacturers and printer models as well as their manufacturing status and compatible ink cartridges.
- Responsible for the maintenance and upkeep of inkjet database by running thin-layer chromatography on inkjet standards.

BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS Rockville, MD
June 1997-August 2002

Forensic Chemist

- Process evidence from arson and explosive incidents under supervision of senior chemists.
- Conduct research on projects involving explosives and accelerants. Conducted a project where the remaining data collection on commercially available brands and their lots of ball-type smokeless powders was completed, and the collected data was entered into the ATF Smokeless Powder Database. Researched to see how well brand identification could be made with just diameter measurements and qualitative chemical compositions.
- Participated in a one year project to determine contamination levels during a post-blast scene and decontamination methods in removing both gross and trace levels of contamination. This involved making and extracting test samples, and setting up and interpreting quantitative data.
- Participated in the ATF Dipole Might project in which high explosives are used on vehicles to research the post-blast scene for advancing investigative information for agents and chemists in obtaining evidence. Collected and extracted samples to send to the laboratory for further analysis.
- Published extended abstract and thesis (see **Publications** below).

Publications

- Laporte, G.M., Arredondo, M.D., McConnell, T.S., Stephens, J.C., Cantu, A.A., and Shaffer, D.K. "An Evaluation of Matching Unknown Writing Inks with the United States International Ink Library," *Journal of Forensic Sciences*, May 2006, Vol. 51 No.3.
- McConnell, T.S. "Ball-Type Smokeless Powder Database/ Brand Identification for Ball-Type Smokeless Powder," George Washington University, 2001.
- Dreifuss, P.A. and McConnell, T.S. "Analysis of Organic Explosives, Propellants, and Post-Blast Residues by Chemical Ionization GC/MS on an Ion Trap," *Proceedings of the 46th Annual Conference on Mass Spectrometry and Allied*

Topics, 1998.

- Czarnopys, G.P. and McConnell, T.S. "*Post-Blast Contamination and Prevention Methods*," Proceedings of the 51st Annual Conference on American Academy of Forensic Science, 1998.

Skills

- In-depth knowledge of theory and operation of Gas Chromatograph/ Mass Spectrometer, Gas Chromatograph/ Thermal Energy Analyzer, High Performance Liquid Chromatograph/ Photodiode Array Detector, X-Ray Diffraction, Polarized Light Microscope, Stereomicroscope and Video Spectral Comparator.
- Working knowledge of Scanning Electron Microscope/ Energy Dispersive System, X-Ray Fluorescence, and Fourier Transform Infrared Spectrometer.
- Proficient in Photoshop, Access, WORD, Corel Wordperfect, Powerpoint, Excel.

Training Received

- Adobe Photoshop I & II provided by EEI Communications
- Principles of Offset Press provided by Montgomery College
- Introduction to New Photo Etching Process provided by The Art League
- Etching and Intaglio Technique provided by The Art League
- Applied Polarized Light Microscopy course provided by McCrone Research Institute.
- Inkjet Academy- "Theory of Inkjet Technology" provided by Information Management Institution, Inc.
- Non-Impact Printing 21st Conference Tutorials
- RSO Radiation Safety training in June 2004 and September 2006, instructed by RSO Joel Zlotnick

Training Given

- U.S. Secret Service Special Agent Training Courses
- Royal Mounted Canadian Police Genuine and Counterfeit Note Detection Class

Conferences

- Information Management Institution, Inc. Annual Inkjet Conference, January 2005
- Deaf and Hard of Hearing in Government's 5th National Training Conference, May 2005
- The Society of Imaging Science and Technology's Non-Impact Printing 21st Conference, September 2005
- Banknote 2005 Conference
- American Academy of Forensic Sciences 57th Annual Conference, February 2005

This is to acknowledge the receipt of your letter/application dated 10/10/2006, and to inform you that the initial processing which includes an administrative review has been performed:

Amendment 09-28066-02 There were no administrative omissions. Your application was 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

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 139569.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.