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December 21, 2007

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Mr. John Nicholson
U.S. Nuclear Regulatory Commission
475 Allendale Rd.
King of Prussia, PA 19406

04007455

Subject: Amendment of License No. SMA-1018

Dear Mr. Nicholson:

Due to my resignation from EnergySolutions, I will no longer be able to service as the Radiation Safety Officer (RSO) for the Whittaker Corporation's U.S. Nuclear Regulatory Commission radioactive materials license SMA-1018. Mr. Eric Lardiere, Whittaker's Vice President, Secretary and General Counsel, has approved the nomination of Mr. Michael Carr as my replacement. Mr. Carr, a Certified Health Physicist employed by EnergySolutions, has more than 15 years of experience. His resume is enclosed with this letter. Mr. Carr's mailing address, telephone number, and e-mail address are as follows:

1009 Commerce Park Dr.
Oak Ridge, Tennessee 37830.
(865) 425-4587
mcarr@energysolutions.com

If you have any questions regarding this amendment request, please contact Mr. Ken Kasper at (864) 235-3694.

Regards,

Kimberly S. Kittell for

Kevin E. Taylor, PE, CHP

Cc: Eric G. Lardiere, Whittaker Corporation
Jerry Toumey, EnergySolutions Project Manager
Michael Carr, EnergySolutions Radiation Safety Officer

FULL COST RECOVERY ACTION

TAC NO. U01756

141492

MICHAEL A. CARR, CHP, RSO

Experience Summary:

Eighteen (18) years experience in the nuclear field as a Radiological Engineer. Thirteen of those years have been at the project management and supervision level during decontamination and decommissioning projects. Three years experience working for the Department of Energy (DOE). Managed and supervised up to thirty (30) project personnel and subcontractors in the field for projects valued up to \$17M plus. Projects have included facility decontamination, coordination and performance of site characterization, and the final status surveys of facilities and the environment for NRC and agreement state license terminations.

Prepared technical work documents, procedures, comprehensive work plans, and reports to ensure compliance with federal and state regulations in the areas of Radiation Protection and Environmental Operations. Familiar with NUREG/CR-5849, MARSSIM, 10CFR20, 49CFR, and the DOE Radiological Control Manual. Provided technical support for decontamination and decommissioning projects. Proficient in the use of radiological survey instrumentation such as liquid scintillation counters, gamma spectroscopy systems, the FIDLER detector and general field instrumentation.

Education/Qualifications:

- Bachelor of Science Degree, Chemical Engineering, Clarkson University

Training/Certifications:

- Board Certified by the American Board of Health Physics (CHP), November 1997. Renewed January 2005.
- Passed Part I (EIT) of the Professional Engineering (PE) licensing exam in the State of NY, 1989.
- OSHA 40 hour Hazardous Waste Operations and Emergency Response (29CFR1910.120), November 1992. OSHA 8 hour refresher, June 2006.
- OSHA 8 hour Hazardous Material Operations for Supervisors and Managers, April 1995.
- Radioactive Waste Packaging and Shipping (49CFR regulations), April 2005.
- DOE Q clearance (inactive 9/92).

Employment History:

1992 to Present:

Energy Solutions, LLC (Formerly Duratek, Inc.)

Oak Ridge, TN

Senior Radiological Engineer

- Active RSO for the Duratek mobile Tennessee D&D License, March 2002 to Present.
- Project Manager for the remediation of the Bomarc Missile Site in New Jersey. Estimated project budget is \$17.6M plus. Involved the coordination of multiple subcontractors and a staffing of approximately 20 personnel. The project entailed the removal and packaging of plutonium-contaminated soil and concrete and the waste shipment to Envirocare by rail.
- Project Manager / Field Health Physicist for the remediation and decommissioning of Pharmaceutical and Radiosynthesis labs at Pharmacia in Skokie, Illinois. Required the gutting of laboratories, removal of ventilation systems and laboratory drains, partial demolition, lead decontamination, and waste packaging and shipment. Radionuclides of concern included tritium and 14C Project budget was approximately \$500k.
- Project Manager / Field Health Physicist for the remediation of the liquid waste pipeline outfall at the Fort Greely Army Base in Delta Junction, Alaska. Contaminated soil was excavated, segregated and packaged for storage on site in soft-sided collapsible containers. Radionuclides of concern were mixed fission and activation products. Project budget was approximately \$250K.

- Project Manager for the remediation and license termination of the INS nuclear laundry facility in Portsmouth, VA. Required partial demolition of the facility including the removal of concrete flooring and excavation of subsurface soils and facility drains. Radionuclides of concern included mixed fission and activation products. Project budget was approximately \$500K.
- Project Engineer responsible for designing, coordinating and reviewing the final status surveys for the Kentucky Electric Steel Mill following a Cs-137 source melt incident in 1997. Project was operated 24/7 and involved several subcontractors.
- Project Manager / Supervisor for the decontamination and license termination of a thorium contaminated light bulb filament processing facility in Lewiston, ME. Work was performed in conjunction of plant work and required detailed coordination with site operations. The decontamination included scaffolding work over operating equipment as well as the excavation of subsurface drains and traps. Remaining subsurface drain lines were honed and flushed with the rinse water and sludge collected, filtered and dried for disposal. Project budget was approximately \$3.2M.
- Project Manager / Supervisor for the decontamination and license termination of a 14C and 3H contaminated pharmaceutical research facility in Kansas City, MO. Project budget was approximately \$110K.
- Project Engineer / Supervisor for the decontamination and survey of a thorium and uranium contaminated light bulb filament processing facility in Bloomfield, NJ. Project budget was approximately \$3.2M.
- Project Engineer / Supervisor for the characterization of the Westinghouse Waltz Mill Test Reactor, reactor support systems and facilities, facility property and parking lots. Contaminants of concern included mixed fission and activation products as well as transuranics and hot particles.
- Coordinated and directed the characterization of facility piping and subsurface sewer lines at the Bloomfield Lamp Plant and the Army Materials Technology Laboratory.
- Coordinated personnel and equipment mobilizations for several projects.

1992:**Scientific Ecology Group, Inc.****Kingston, TN****Senior Radiological Engineer/ Project Manager**

- Prepared business development proposals, technical reports and cost estimates for radiation protection and decommissioning.
- Performed dose assessments and shielding calculations using RESRAD and Microshield computer codes.

1989 to 1992:**Knolls Atomic Power Laboratory****Schenectady, NY****Radiological Engineer**

- Provided radiological controls guidance and technical support for the site radiological facilities (radioactive waste processing, chemistry laboratories, hot cell facility, materials fabrication laboratories and the physics experiment facility).
- Prepared, reviewed and approved technical work documents and procedures.
- Ensured compliance with Naval Reactors and Department of Energy regulations.
- Lead radiological engineer for the decommissioning of contaminated ventilation systems, 500-ton extrusion press and contamination containment enclosures.
- Member of the Radiological Assessment Group for the site emergency control center and an emergency responder for NRC Region I.

Affiliations/Other:

- Health Physics Society
- Engineering Honor Society (Clarkson University; Tau Beta Pi)
- Chemical Engineering Honor Society (Clarkson University; Omega Chi Epsilon)

This is to acknowledge the receipt of your letter/application dated

12/21/2007, and to inform you that the initial processing which includes an administrative review has been performed.

☒ AMEND. SMA-1018 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** 141492.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.