ENERGY*SOLUTIONS*

December 20, 2007
Ref. No. ESR-8520

NMSB4

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REGION 1
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Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406

Subject: Amendment to NRC License

Reference: License No. 06-20775-01
Docket No. 030-22060

Dear Sir or Madam:

Energy*Solutions*, LLC is requesting an amendment to the above referenced radioactive materials license as described below.

Please remove Kevin E. Taylor, CHP, as the license Radiation Safety Officer (RSO) and add Mr. Michael Carr, CHP. This change is requested due to Mr. Taylor's resigning from Energy*Solutions*.

Mr. Carr has more than 18 years experience in the radiological engineering and health physics fields. He has been certified by the American Board of Health Physics as a Certified Health Physicist since 1997. Mr. Carr has worked with Energy*Solutions* and one of its predecessor companies, Duratek, for 15 years. He was formerly the RSO on Duratek's Tennessee radioactive materials license. Mr. Carr's resume is enclosed with this letter.

While Energy*Solutions* does not wish to change the Connecticut address on the licensee, please note that Mr. Carr's office address is 1009 Commerce Park Drive, Suite 100, Oak Ridge, Tennessee 37830. His telephone number is (865) 425-4587.

Please feel free to contact me at (864) 235-3694, if you have any questions or concerns.

Sincerely,

Kenneth M. Kasper, CIH, CHP
Manager Engineering and Health Physics
Commercial Decommissioning Services
Energy*Solutions*, LLC

KMK/lhc
Enclosure
cc: M. Carr

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141480
NMSS/RGN1 MATERIALS-002

ENERGY*SOLUTIONS*

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~~ undated

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

☑ Amend. 06-20775-01
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

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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** 141480.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI)
(6-96)

Sincerely,
Licensing Assistance Team Leader