



Pennsylvania Department of Environmental Protection

Rachel Carson State Office Building

P.O. Box 8469

Harrisburg, PA 17105-8469

February 27, 2008

Bureau of Radiation Protection

717-787-2480

Fax: 717-783-8965

L-7

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

Re: License Transfer Request
License No. 37-17860-02

03029288

2008 MAR -3 PM 12:46

RECEIVED
REGION 1

Dear Mr. Nicholson:

As you are aware, the Commonwealth of Pennsylvania (Commonwealth) is scheduled to become an Agreement State (AS) on March 31 of this year. The Department of Environmental Protection (DEP), Bureau of Radiation Protection, will be accepting the responsibilities involved with AS. These responsibilities will include the transfer of regulatory authority over a large number of current Nuclear Regulatory Commission (NRC) licensees within the Commonwealth. The license transfer is to include the license for the Quehanna Decommissioning Project (Quehanna), license number 37-17860-02. DEP has been the licensee for this license since the December 2002 bankruptcy of the former tenant, Permagrain Products, Inc. My staff has previously discussed with you the options available to DEP to make sure that the requirements of this license be fulfilled while not impacting the Commonwealth's transition to AS. After discussions with both NRC as the regulator and the Pennsylvania Department of Conservation and Natural Resources (DCNR) as the property owner, the joint decision was made to transfer the license and its responsibilities from DEP to DCNR.

Through existing contracts with the decommissioning contractor, EnergySolutions, DCNR has secured the services of Michael A. Carr, CHP, as their license Radiation Safety Officer (RSO). Mr. Carr will replace Bryan Werner of my staff in that role. Mr. Carr's resume is enclosed with this letter for your review. Mr. Carr will be granted by DCNR the authority necessary to protect the health and safety of all people involved. He will have the ability to stop all work at anytime should a problem or concern arise. He will have the ability to communicate conditions and concerns directly to DCNR independent of the company structure, and he has the ability to request additional funding necessary to safely complete the project. Mr. Carr is also the RSO for one other NRC license and a few AS licenses. It is not anticipated that a significant amount of Mr. Carr's time will be needed on this project, as we are preparing to assemble the final status survey data. However, he will be available for this project when needed, and he will be ready to respond in any emergency situations. Mr. Carr is located in Oak Ridge, Tennessee,

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on a daily basis. In the case of a real emergency, it would be possible for him to be onsite within approximately 12 hours.

DCNR has provided financial support in recent years and is already the responsible group named in the financial assurance documents held by NRC. Therefore, no change will be needed to the financial assurance mechanism. Mr. Albert Thomas, Chief of the Field Engineering Division, will be the direct contact with DCNR. His phone number is 717-772-0650. Additional contact information for him is provided in the enclosed letter acknowledging DCNR's acceptance of the license responsibilities. Mr. Thomas will also have power to stop work should safety issues arise until such time that he can consult with the RSO and agree on a path forward. DCNR has agreed to abide by all constraints, conditions, requirements, and commitments that have already been established for this project. Additionally, DEP will provide DCNR with any additional necessary documentation associated with this site that they may not already have.

Your consideration and action on transferring License No. 37-17860-02 from DEP to DCNR will be greatly appreciated. Please do not hesitate to call me at 717-787-2480 or Bryan Werner at 717-787-2781 if you have any questions or need any additional information.

Sincerely,



David J. Allard, CHP
Director, Bureau of Radiation Protection

Enclosures: Resume of Michael Carr, CHP
DCNR Letter of Acceptance

cc: Robert Maiers, DEP
Bryan Werner, DEP
Albert Thomas, DCNR
Eugene Comoss, DCNR
Daniel Devlin, DCNR



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)



Pennsylvania Department of Conservation and Natural Resources

Rachel Carson State Office Building
P.O. Box 8451
Harrisburg, PA 17105-8451
February 27, 2008

Bureau of Facility
Design and Construction

717-787-7398

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

RE: License Transfer Request
License No.: 37-17860-02

Dear Mr. Nicholson:

The Pennsylvania Department of Conservation and Natural Resources (DCNR) has been working closely for years with the Pennsylvania Department of Environmental Protection's Bureau of Radiation Protection (DEP) towards the completion of the decommissioning and termination of the United States Nuclear Regulatory Commission's (NRC) license number 37-17860-02. DCNR owns this property in the Quehanna Wild Area in the north central portion of the Commonwealth.

This letter is to notify you that DCNR is prepared to take the responsibilities of the licensee for this site if NRC approves the transfer from DEP to DCNR. The position of Radiation Safety Officer will be filled by an employee of our contractor, EnergySolutions. Mr. Michael Carr, CHP has been assigned to fill that role. An explanation of Mr. Carr and DCNR's roles are explained in further detail in the letter from DEP requesting the transfer. A copy of his résumé is also included with that correspondence. DCNR has reviewed this letter and accepts all of the details described therein. We would like to reiterate our acceptance of responsibilities and our commitment to complete this site cleanup and eventual license termination. This process will be completed under all current conditions and requirements applicable to this license.

Please consider Al Thomas, of my staff, as the DCNR point of contact for any needed communications. He will provide the primary oversight of the contractor's work and responsibilities. His contact information is as follows:

Albert C. Thomas, Jr., P.E.
8th Floor, RCSOB
400 Market St.

Stewardship

Partnership

Service

Mr. John Nicholson

- 2 -

February 27, 2008

Harrisburg, PA 17101
Phone: 717-772-0650
Fax: 717-705-5549
E-mail: albthomas@state.pa.us

In addition, DCNR is the current provider of the Financial Assurance for this site, and we will continue to support this project in all necessary ways to obtain license termination.

I appreciate your consideration and action on transferring License No. 37-17860-02 from DEP to DCNR. Please feel free to contact Al Thomas or myself if you have any questions on this matter.

Sincerely,



Eugene J. Comoss, P.E.
Director
Bureau of Facility
Design and Construction
Department of Conservation and
Natural Resources

cc: Bryan Werner, DEP
David J. Allard, CHP
Dan Devlin, DCNR, Forestry
Albert Thomas, DCNR, FDC

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

2/27/2008, and to inform you that the initial processing which includes an administrative review has been performed.

AMEND. 37-17960-02 (REQUEST FOR TRANSFER)
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** 141979.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.