

RODERICK KNIGHT

EXPERIENCE SUMMARY

Mr. Knight is the owner of Knight Cost Engineering Services, LLC in New Milford Connecticut. Mr. Knight has over 30 years of experience performing cost estimates for the nuclear industry for commercial, government and research facilities. As owner of Knight Cost Engineering Services, LLC Mr. Knight developed a proprietary cost estimating program for use in developing decommissioning cost estimates. Mr. Knight's recent work includes the development of Independent Cost Estimates (ICE) in support of reviews for DOE projects, decommissioning cost estimates for D. C. Cook Nuclear Power Plant, Atomic Energy of Canada Limited (AECL), and Argonne National Laboratory in Argonne, IL. In addition, Mr. Knight participated in the Department of Energy Project Peer Review of the River Corridor Closure Project at the Hanford Site in Richland, WA. Mr. Knight has worked for several confidential clients providing litigation support. Mr. Knight has extensive international experience including numerous missions with the International Atomic Energy Agency (IAEA).

DETAILED EXPERIENCE

July 2004 to **Knight Cost Engineering Services, LLC**
Present 22 Mt. View Terr. New Milford, CT 06776

- ◆ Currently working on a contract basis as a Certified Cost Professional
- ◆ Provide litigation and rate hearing support
- ◆ Cost estimating, planning and scheduling services
- ◆ Developing decommissioning cost estimates for the nuclear industry, including Utilities and research facilities
- ◆ Maintain extensive vendor contact in support of cost estimates
- ◆ Manage cost estimating staff in the completion of various portions of the decommissioning cost estimates
- ◆ Ensure conformance to federal regulations

Dec 1992 to **SCIENTECH, Inc.**
June 2004 143 West Street New Milford, CT 06776

- ◆ Develop decommissioning cost estimates for the nuclear industry
- ◆ Develop and meet project schedules and budgets
- ◆ Maintain extensive vendor contact in support of cost estimates
- ◆ Manage four to five engineers in the completion of various portions of the decommissioning cost estimates
- ◆ Maintain close client contact to ensure that their comments and concerns are incorporated into the project
- ◆ Ensure conformance to federal regulations
- ◆ Prepared cost estimates in support of rate hearings and litigation
- ◆ Determine the extent of client-supplied technical information and verify that this information is adequate to support the project
- ◆ Investigate post-shutdown cost reduction methods
- ◆ Develop computer-generated models to standardize cost estimating methodologies

- ◆ Develop reports on decommissioning scheduling and cost analysis
- ◆ Support development of proposals for projects

Oct 1985 to **TLG Engineering, Inc.**

Dec 1992 148 New Milford Road East Bridgewater, CT

- ◆ Coordinated all cost estimating components in preparation for a detailed cost estimate for nuclear power plant decommissioning
- ◆ Calculated structural design specifications
- ◆ Maintained the schedule and budget for the generation of cost estimates
- ◆ Contributed to the development of current methodology for accurate decommissioning cost estimates
- ◆ Developed a database for use within computer codes providing detailed cost estimates
- ◆ Instructed at conferences and hearings on nuclear power plant decommissioning

Experience

- ◆ Presented at the 2014 Nuclear Energy Insider conference in Charlotte, North Carolina. Presentation was titled "How Utilities Can Prepare Accurate Decommissioning Cost Estimates."
- ◆ In 2014 worked with Radiation Safety & Control Services, LLC developing lesson plans and presenting lessons to personnel from Korean Hydro and Nuclear Power (KHNP) in South Korea.
- ◆ In 2014 worked as part of a team developing detailed site specific decommissioning cost estimates for the Vermont Yankee Nuclear Power Plant. The estimates included identification of labor costs, man-hours, duration hours, waste volumes, waste packaging and disposal costs.
- ◆ Participated in the Department of Energy Project Peer Review of the River Corridor Closure Project at the Hanford Site in Richland, WA. The purpose of the review was to assess the projects progress in the capital asset cleanup project.
- ◆ In 2012 and 2015 Developed decommissioning cost estimates for the Independent Spent Fuel Storage Installations at the Connecticut Yankee, Maine Yankee and Yankee Rowe sites.
- ◆ Developed Independent Cost Estimates (ICE) in support of reviews for DOE projects. One each in 2011, 2012, 2013 and 2014. These projects included both construction and decommissioning estimates.
- ◆ In 2011 and 2012 worked as part of a team developing decommissioning cost estimates for Atomic Energy of Canada Limited's (AECL) Chalk River Laboratories.
- ◆ From 2008 through 2013 developed decommissioning cost estimates for multiple facilities at Argonne National Laboratory in Argonne, IL including four buildings associated with the Intense Pulsed Neutron Source Complex; the Alpha Gamma Hot Cell Facility and Building 310.
- ◆ In 2006, 2009, 2012 and 2015 developed decommissioning cost estimates for Indiana Michigan Power Company's D. C. Cook Nuclear Power Plant. Cost estimates included numerous scenarios with various spent fuel shipping schedules and decommissioning methodologies.

International Experience

- ◆ In June of 2009 served as an expert in the review of the revised KRSKO Nuclear Power Plant Decommissioning Plan, jointly owned by Slovenia and Croatia. The Plan included revisions based on recommendations made in December of 2005. A detailed review was performed and included interviews with many of the authors. A detailed report was prepared and submitted to the IAEA.

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- ◆ In December of 2006 served as an expert in the review of the revised BN-350 partial decommissioning cost estimate. The estimate is a detailed estimate of several areas of the facility and is based on the recommendations of the Experts from two earlier missions. This estimate is to be used as a template for estimating the remaining scope of work. A detailed review was performed and included interviews with many of the authors. A detailed report was prepared and submitted to the IAEA.
 - ◆ In October of 2005 served as an expert in the review of the KRSKO Nuclear Power Plant Decommissioning Plan, jointly owned by Slovenia and Croatia. The Plan included revisions to the cost estimate based on recommendations made in December of 2003. This mission focused on the decommissioning cost estimate and included a presentation on the how to develop a decommissioning cost estimate that conforms to IAEA standards. A detailed review was performed and included interviews with many of the authors. A detailed report was prepared and submitted to the IAEA.
 - ◆ In the fall of 2004 worked as part of a Sciencetech team contracted by PA Government Services (PA) to assist in developing and promoting a series of reforms for the Armenian energy sector. SCIENTECH Worked directly with PA's project office in Armenia. The main focus of the activities under this Agreement was to provide expertise on the Armenian Nuclear Power Plant (ANPP) decommissioning and nuclear safety issues. This work included, review of the existing reports and studies on ANPP's decommissioning; develop a draft proposal for ANPP's decommissioning based on international experience; Conduct a workshop for all stakeholders to present draft report on decommissioning the ANPP, revise report based on workshop feedback and finalize report and plan for decommissioning.
 - ◆ Served as an expert, in March of 2004, on an International Atomic Energy Agency (IAEA) mission to Vienna, Austria. The mission was to review the comments of the Peer Review held in 2003 (of which I served as an expert) and develop a plan which will lead to an internationally acceptable decommissioning plan for the BN-350 Nuclear Power Plant located in Aktau, Kazakhstan. A report was provided to the IAEA.

EDUCATION**University of New Haven**

Bachelor of Science in Civil Engineering, 1993

University of Maine

Bachelor of Science in Natural Resource Management, 1981