

NUCLEAR POWER REGULATION BASICS (NRC 101)

April 26-27, 2017
Offices of Morgan, Lewis & Bockius LLP
1111 Pennsylvania Avenue, NW
Washington, DC



EUCI is authorized by
CPE to offer 12 credits
for the course



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OVERVIEW

Join us in Washington, D.C., as acknowledged experts in nuclear regulation, attorney and author Alex Polonsky, and attorneys Thomas Poindexter and Ray Kuyler present an overview of nuclear regulation. The course will cover the history and background necessary to understand the U.S. regulatory process. It will bring attendees up to date on the latest regulatory changes that have transformed the way commercial nuclear reactors are licensed for construction, approved for siting, and regulated during construction and operation. The course also will cover NRC regulatory requirements and guidance documents and will examine NRC's role in the nuclear fuel cycle through waste disposal. Each attendee will receive a copy of *Fundamentals of Nuclear Regulation in the United States* written by Alex Polonsky and retired Morgan Lewis partner and former NRC regional counsel, Jay M. Gutierrez.

Topics include:

- How NRC regulates existing reactor licenses and licensees
- How NRC imposes its regulatory requirements
- How NRC evaluates licensee performance
- How new plants are licensed
- How nuclear exports are regulated

LEARNING OUTCOMES

- Review the history and development of nuclear regulation in the U.S.
- Discuss the relationship of the NRC with other organizations both inside and outside of the government
- Review the organizational and staffing structure of the NRC
- Recognize the regulatory and licensing requirements of the NRC
- Examine how the NRC evaluates licensee performance
- Review the hearing process of the NRC
- Discuss the NRC's enforcement process

WHO SHOULD ATTEND

- All new employees who deal with nuclear industry licensing or regulations
- Employees who need a job-related understanding of the history, structure, purpose, and application of nuclear regulations
- Executives and managers who need a broad understanding of nuclear licensing and regulation impacting nuclear plant design, construction, operations, and regulatory reporting
- Managers and engineers responsible for licensing new nuclear plant construction
- Suppliers and vendors involved in the procurement cycle for new nuclear plants
- Attorneys and paralegals whose work is directly or indirectly involved with nuclear energy
- Individuals whose job performance would be enhanced by an understanding of the nuclear regulatory environment, including those working for or with the NRC, the Institute of Nuclear Power Operations, American Nuclear Insurers, the Nuclear Energy Institute, the American Society of Mechanical Engineers, the American Nuclear Society, and other nongovernmental organizations
- Individuals who have responsibilities for complying with or enforcing nuclear safety regulations in countries outside the U.S.

AGENDA

WEDNESDAY, APRIL 26, 2017

12:30 – 1:00 pm

Registration

1:00 – 4:30 pm

Course Timing

Welcome and Program Overview

Technical Overview of the Nuclear Fuel Cycle

History of Nuclear Regulation: 1946-Present

- Atomic Energy Act of 1946 and 1954
- Atomic Energy Commission
- Joint Committee on Atomic Energy
- Energy Policy Act of 1974 and formation of the NRC
- NRC's changing roles to the present

NRC's Relationship to Others

- The role of the NRC
- External influences on the NRC
- Congressional oversight responsibility for the NRC
- NRC's relationship to others, both inside and outside the government

2:30 – 2:45 pm

Afternoon Break

Structure and Function of NRC's Component Offices

- The structure of the NRC
- Adjudicatory functions of the commission
- The structure of the NRC staff offices
- NRC staff program offices
- The regional offices
- Standing principal advisory committees and boards

Statutes, Regulations, and License requirements

- Hierarchy of NRC regulatory requirements
- Statutes Regulations License requirements
- Final safety analysis report (FSAR) and commitments
- Design and procedures
- Role of NRC guidance

Reactor Licensing Processes: Existing Plants

- Licensing process for current term plants
- License amendments
- Changes in final safety analysis reports (FSARs)
- Resolving degraded and nonconforming conditions
- Reportability
- License renewal process
- Post-license renewal requirements
- Financial qualifications
- Foreign ownership and control
- Power uprates

AGENDA

THURSDAY, APRIL 27, 2017

7:30 – 8:00 am

Continental Breakfast

8:00 am – 5:00 pm

Course Timing

12:00 – 1:00 pm

Group Luncheon

How NRC Evaluates Licensee Performance

- Inspection program
- Reactor oversight process (ROP)
- Response levels
- Inspection and ROP outputs
- Operating experience

New Nuclear Plant Licensing

- Licensing of new plants
- Early site permits
- Design certification
- COL application
- Authorization to load fuel and operate
- ITAAC review and approval
- Financial incentives

10:30 – 10:45 am

Morning Break

Generally Regulated Activities of Operating Plants

- Physical security
- Fitness for duty
- Access authorization

Nuclear Liability and Decommissioning

- Price-Anderson
- Decommissioning funding

NRC's Activities Related to Fukushima

- Orders
- 50.54(f) letter
- Longer-term actions

The Hearing Process: When Is Someone Entitled to a Hearing and on What Issues?

- Who is an interested party?
- What triggers a right to request a hearing?
- Overview of the hearing process
- Discovery and limitations
- Mandatory hearings

12:00 – 1:00 pm

Group Luncheon



“Whether you are new to this industry or a veteran, this course will prove enlightening to all who attend.”

Financial Analyst, US NRC



“I am a 27-year veteran of commercial nuclear and a former licensed nuclear operator, and I still learned things I didn't know about the NRC. It was well worth the price.”

Director of Nuclear Oversight,
Exelon

AGENDA

THURSDAY, APRIL 27, 2017 (CONTINUED)

NRC Enforcement

- Statutory and applicable regulations
- ROP vs. traditional
- Civil penalties
- Mitigation and escalation
- Discretion
- Actions against individuals
- ADR
- NRC Backfit Rule – 10 CFR 50.109

Safety Culture and Safety-Conscious Work Environment (SCWE)

- Safety Culture
 - Commission issuance on safety culture
 - NEI guidance
- Understanding and Meeting NRC Expectations for Safety Conscious Work Environment (SCWE)
 - Employee concerns
 - Department of Labor and NRC parallel paths
 - Industry experience
 - Detecting and preventing retaliation
 - Chilling effects

2:15 – 2:30 pm

Afternoon Break

The NRC's Allegation and Investigatory Processes

- Allegations
- Referred allegations
- Investigations
- Investigation process
- OI interviews

Overview of Export Controls Issues

- NRC export controls
- Dept of Energy export controls
- Dept of Commerce export controls
- Violations and penalties

Nuclear Waste and Related Fuel Cycle Issues

- Background
- Low-level waste issues
- High-level waste issues

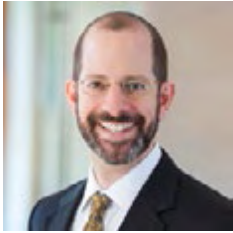
Open Forum for Questions and Course Conclusion



"This course is a must for anyone who is new to the nuclear industry. Highly informative and provides an excellent tool for engineers to executive management."

Practice Manager, Burns and McDonnell Engineering

INSTRUCTORS



Alex Polonsky

Partner - Energy Practice, Morgan Lewis & Bockius LLP

Mr. Polonsky has extensive experience as a nuclear lawyer, assisting a variety of clients before the NRC and the federal courts in most aspects of the nuclear fuel cycle. Mr. Polonsky's nuclear practice includes advising on NRC licensing, license transfers, license renewal, decommissioning, internal investigations, export controls, and environmental evaluations. He is the co-author of the textbook *Fundamentals of Nuclear Regulation in the United States*. He graduated with high honors from the Vermont Law School in 1998. He received his undergraduate degree in environmental science, with honors, from Wesleyan University in 1992.



Thomas Poindexter

Partner - Energy Practice, Morgan Lewis & Bockius LLP

Mr. Poindexter represents nuclear energy clients in licensing, regulatory, and adjudicatory matters before the Nuclear Regulatory Commission (NRC) and the Department of Energy (DOE). Mr. Poindexter has assisted nuclear power plants to recover from regulatory, investigation, and enforcement problems, both in the United States and Canada. He regularly provides legal advice on a number of substantive regulatory matters, such as environmental qualification of electrical equipment, quality assurance programs, NRC policies, and technical specification interpretations. Prior to practicing law, Mr. Poindexter worked for the NRC for seven years in various technical positions. Most notably, he was one of a core group of NRC technical personnel between 1979 and 1985 responsible for inspecting and overseeing the clean-up activities at Three Mile Island, serving as the NRC Project Manager at TMI-2. Mr. Poindexter holds an undergraduate degree in Nuclear Engineering from Purdue University and is a graduate of George Mason University School of Law.



Ray Kuyler

Assistant General Counsel - Nuclear Regulatory Affairs, Westinghouse Electric Company, LLC

Mr. Kuyler is an in-house attorney with Westinghouse Electric Company, a leading provider of nuclear power plant products and services around the world. Mr. Kuyler advises the company on nuclear regulatory and related legal matters, including U.S. NRC licensing and enforcement proceedings, nuclear safety and regulatory compliance, nuclear liability, employment discrimination, internal investigations, and related matters. Before joining Westinghouse, he practiced law at Morgan Lewis as a member of its Nuclear Energy Practice. Prior to practicing law, Mr. Kuyler was a nuclear-trained surface warfare officer in the U.S. Navy, qualifying as a nuclear chief engineer and serving as an instructor at the U.S. Naval Academy. Mr. Kuyler earned his J.D. in 2005 from the Georgetown University Law Center, where he was senior editor of the *Georgetown Journal of International Law*. He earned his M.A. in history from the University of Maryland and his B.S., with honors, from the U.S. Naval Academy.



"This course is a must for anyone who is new to the nuclear industry. Highly informative and provides an excellent tool for engineers to executive management."

Practice Manager, Burns and McDonnell Engineering

REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must sign in/out each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

INSTRUCTIONAL METHODS

PowerPoint presentations will be used in this course.

PROCEEDINGS

The proceedings of the course will be published, and one copy will be distributed to each registrant at the course.

EVENT LOCATION AND NEARBY HOTELS

Offices of Morgan, Lewis & Bockius LLP

1111 Pennsylvania Avenue, NW, Washington, DC 20004
202-739-3000

JW Marriott Hotel Pennsylvania Avenue

1331 Pennsylvania Ave.
NW,
Washington, D.C.
202-393-2000

InterContinental The Willard Washington DC Hotel

1401 Pennsylvania Ave.
NW,
Washington, D.C.
877-270-1390

W Hotel Washington DC

515 15th St. NW,
Washington, D.C.
202-661-2400

Washington Marriott at Metro Center

775 12th St. NW,
Washington, D.C.
202-737-2200

Grand Hyatt Washington

1000 H St. NW,
Washington, D.C.
202-582-1234

IACET CREDITS



EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard.

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Upon successful completion of this event, program participants interested in receiving CPE credits will receive a certificate of completion. EUCI is authorized by CPE to offer 12 credits for the course.

There is no prerequisite for this course.

Program Level: Beginner

Delivery Method: Group-Live

Advanced Preparation: None

REGISTRATION
to register [CLICK HERE](#) or

Call: 201 871 0474
fax: 253 663 7224
email: [register@pmaconference.com/](mailto:register@pmaconference.com)
web: <http://pmaconference.com/>
Mail: POB 2303 Falls Church Va 22042

Please make checks payable to: "PMA"

EVENT LOCATION

Offices of Morgan, Lewis & Bockius LLP

1111 Pennsylvania Avenue, NW
 Washington, DC 20004
 202-739-3000

View nearby hotels on page 7.

PLEASE REGISTER

BOTH NUCLEAR POWER PLANT OPERATIONS AND NUCLEAR POWER REGULATION BASICS (NRC 101) COURSES

APRIL 25-27, 2017: US \$2195,
 Early bird on or before April 7, 2017: US \$1995

NUCLEAR POWER REGULATION BASICS (NRC 101) COURSE ONLY

APRIL 26-27, 2017: US \$1395,
 Early bird on or before April 7, 2017: US \$1195

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

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OR Enclosed is a check for \$ _____ to cover _____ registrations.

Substitutions & Cancellations

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before March 24, 2017 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at (201) 871-0474.