INTRODUCTION TO NUCLEAR POWER PLANT EMERGENCY PLANNING

February 20-21, 2020
Hyatt Centric Midtown Atlanta
Atlanta, GA

RELATED EVENT:
NUCLEAR POWER PLANT OPERATIONS
February 19-20, 2020 | Atlanta, GA

EUCI is authorized by IACET to offer 1.1 CEUs for the course

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OVERVIEW

The Nuclear Power Plant (NPP) Introduction to Emergency Planning course provides attendees with a clear understanding of how these powerful plants plan to protect the public if a casualty occurs. The course will describe: how plants are built for safety, the inherent stability of nuclear plants, what decay heat and radiation is, how radiation release is minimized, how the emergency plan is developed, and how the emergency plan is tested. Functions of nuclear safety components of the nuclear plant site will be described (containment, containment spray, safety injection, decay heat removal). Plant staffing and roles will be addressed including critical and non-critical personnel. Requirements for conducting an emergency drill and discussion of major drill tasks and roles of supporting agencies will be presented. Participants will complete the course with full comprehension of, and appreciation for, the functions of the NPP and the protections of the public in the nuclear environment.

Topics include:
The following emergency planning topics and areas of interest will be discussed over a day and a half:

- Why Nuclear Power
- Basic PWR and BWR Difference Review
- Basic Reactor Safety Systems
- 10CFR Safety System Design Objectives
- Reactor Accidents and Anticipated Operational Occurrences Explained
- Radiation Types and Their Biological Effects
- 10CFR Allowed Doses for Normal and Accident Conditions
- Emergency Planning Goals
- NRC, INPO, State and Local Responsibilities
- Emergency Planning Classifications
- NUREG 1022 Review for Emergency Planning
- Emergency Planning Zones
- Protective Action Recommendations
- Examples of Initiating Conditions
- Essential Personnel Roles and Responsibilities
- Basic Log keeping
- Communication Systems
- Drill/Exercise Development and Testing

LEARNING OUTCOMES

Upon course conclusion the attendee should be able to:

- Discuss why we need nuclear power and its rewards
- Identify basic design differences of PWR and BWR nuclear plants
- Describe nuclear power plant safety systems, concepts of redundancy, and defense-in-depth for mitigating accidents
- Identify the design objectives, major components, and functions of nuclear power plant safety systems
- Describe site staffing and personnel assignments required for emergency planning
- Discuss the roles of Federal, State, and local agencies responsible for emergency planning
- Identify the emergency planning zones of concern, and the related protective action guidelines associated with accidents
- Provide examples of accident types and initiating conditions for activating the emergency plan
- Describe the requirements and goals associated with the planning and conducting of an emergency plan drill

WHO SHOULD ATTEND

- All employees whose jobs require a working knowledge of nuclear power plant emergency planning
- Personnel in the energy industry who are newly assigned to nuclear generation
- Contractors involved with nuclear plant operations, maintenance, and specific projects
- Employees who require a job-related understanding of nuclear power plant emergency planning
- Public affairs and public relations personnel who need an understanding of the basic function and purpose of the emergency plan
- Executives and managers who require training in nuclear power plant emergency planning
- Engineers with responsibilities in nuclear power
- Suppliers and vendors involved in the procurement cycle for new and existing nuclear plants
- Attorneys and paralegals whose work is directly or indirectly involved with nuclear energy
AGENDA

THURSDAY, FEBRUARY 20, 2020

1:00 – 1:30 pm  Registration

1:30 – 3:30 pm  Course Introduction and Nuclear Design Presentation
  • Why Nuclear Power?
  • Basic PWR and BWR Review
    o PWR Design
    o BWR Design
  • Basic Reactor Safety Systems
    o Barriers to Radiation Release
    o Containment
    o Containment Spray
    o Safety Injection
    o Decay Heat Removal
  • 10CFR Safety System Design Objectives

3:30 – 3:45 pm  Afternoon Break

3:45 – 5:00 pm  Accidents and Radiation
  • Reactor Accidents and Anticipated Operational Occurrences
  • FSAR Accident Analysis
  • Radiation Types and Their Biological Effects
    o Alpha
    o Beta
    o Gamma
    o Neutron
    o Penetration Power and Biological Effects
  • 10CFR Allowed Doses for Normal and Accident Conditions

FRIDAY, FEBRUARY 21, 2020

8:00 – 8:30 am  Continental Breakfast

8:30 – 10:15 am  Emergency Planning Goals
  • Emergency Planning Goals
  • What is INPO and NEI and Their Role
  • Federal, State, Local Responsibilities

10:15 – 10:30 am  Morning Break
AGENDA

FRIDAY, FEBRUARY 21, 2020 (CONTINUED)

10:30 am – 12:00 pm  Emergency Planning Classifications
  • NUREG 1022 Explained
  • Emergency Planning Classifications
  • Emergency Planning Zones
  • Protective Action Recommendations
  • Examples of Initiating Conditions

12:00 – 1:00 pm  Group Luncheon

1:00 – 2:45 pm  Personnel and their Roles
  • Essential Personnel Roles and Responsibilities
  • Basic Log Keeping
  • Basic Communication Systems

2:45 – 3:00 pm  Afternoon Break

3:00 – 4:45 pm  Drill Development and Evaluation
  • Drill/Exercise Development and Testing

4:45 – 5:00 pm  Course Wrap-Up, Assessment, and Conclusion

COURSE INSTRUCTOR

Mr. Ronald L. York
Nuclear Industry Consultant

Mr. York has more than 35 years of experience in the commercial nuclear power industry. Ron began his career as a naval submarine reactor operator, followed by several years of building submarines at Electric Boat. He began working in the commercial nuclear industry as a cold licensed senior reactor operator (SRO) at Waterford 3 outside New Orleans shortly after the Three Mile Island event. Ron served in many capacities with Entergy and six other nuclear power companies. During his career, besides holding an active NRC SRO license until 1990, he held multiple SRO certifications and worked at both Combustion Engineering (CE) and Westinghouse sites. Ron has been a control room supervisor, refueling supervisor, outage and containment coordinator, emergency plan writer/drill controller, and operations procedure writer. He was INPO certified as a Simulator and Classroom Operations Instructor and has written numerous operation and management training curricula, and presented lectures and simulator training in nuclear power plant operations for initial licensed operator candidates, requalification training for licensed and senior licensed operators, Shift Technical Advisors (STAs), senior management, and has written and administrated NRC initial and requalification exams.
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 and classroom discussions will be used in this course.

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.

EUCI is authorized by IACET to offer 1.1 CEUs for the course.

EVENT LOCATION
A room block has been reserved at the Hyatt Centric Midtown Atlanta, 125 10th St NE, Atlanta, GA 30309, for the nights of February 18 – 20, 2020. Room rates are US $209 plus applicable tax. Call 1-404-443-1234 for reservations and mention the EUCI event to get the group rate. The cutoff date to receive the group rate is January 18, 2020 but as there are a limited number of rooms available at this rate, the room block may close sooner. Please make your reservations early.

REGISTER 3, SEND THE 4TH FREE
Any organization wishing to send multiple attendees to this course may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.
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 January 17, 2020 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.

PLEASE REGISTER

SPECIAL BUNDLE PRICE NUCLEAR POWER PLANT OPERATIONS AND INTRODUCTION TO NUCLEAR POWER PLANT EMERGENCY PLANNING COURSES
February 19-21, 2020: US $2395
Early bird on or before January 31, 2020: US $2195

INTRODUCTION TO NUCLEAR POWER PLANT EMERGENCY PLANNING COURSE ONLY
February 20-21, 2020: US $1395
Early bird on or before January 31, 2020: US $1195

Print Name

Job Title

Company

What name do you prefer on your name badge?

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State/Province

Zip/Postal Code

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List any dietary or accessibility needs here

CREDIT CARD INFORMATION

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Account Number

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Billing State

Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

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OR Enclosed is a check for $__________________ to cover ____________________ registrations.

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