



BASIS AND APPLICATION OF THE OFFSITE DOSE CALCULATION MANUAL FUNDAMENTALS TRAINING | JANUARY 18TH - 22ND

INSTRUCTORS

Our instructors include Douglas Wahl and Roger Tolbert with collectively over 60 years of experience in the Offsite Dose calculation Manual program.

Doug Wahl has worked in the nuclear industry since 1977 developing, maintaining and enhancing environmental program including offsite dose calculation manual programs and initiatives as a utility employee as well as an industry consultant, Doug brings a very wide range of experiences and deep technical knowledge. Doug is the recipient of the 2013 Jason Jang award for excellence in ODCM programs and maintaining knowledge within the industry.

Roger Tolbert has worked in the industry since 1985, providing expert advice, training and guidance to the nuclear industry effluents programs and radiological environmental monitoring within the nuclear industry as well as in a consultant role. Roger brings a practical, hands on perspective to his training and mentoring perspective.

This course provides practical, hands-on information and techniques for personnel responsible for the ODCM program and associated activities. Through this course, students develop a deeper knowledge of ODCM technical principles, regulatory basis, annual reports and practical application.

Training materials and activities are expertly designed to support, strengthen, and increase the knowledge and proficiency of program owners.

COURSE DESCRIPTION

Designed by experts for BWR and PWR chemistry and radiation protection personnel, this course develops participants' in-depth understanding of the fundamentals of RETS/REMP and delivers practical, hands-on learning and proven techniques for personnel who are responsible for RETS and REMF activities. Common topics will be covered throughout the seminar as well as targeted design-specific topics for BWR and PWR.

WHO SHOULD ATTEND

Newly assigned program owners, backup program owners, and personnel with 2 to 5 years of experience, as well as long-term incumbents in Offsite Dose Calculation Manual (ODCM) programs, are encouraged to attend this training course. Regardless of where you are in your career, this class offers valuable opportunities to expand your knowledge, gain new perspectives, and connect concepts that can help solve technical challenges. ODCM programs are highly specialized, and many sites have limited local expertise available to provide technical oversight or support. This training serves as a forum for building an industry-wide network of peers and subject matter experts who can provide ongoing technical guidance and support as you develop, enhance, and maintain a robust program.

EVENT DETAILS

Event Date: Monday, January 18th - Friday, January 22nd 2027

Daily Duration: 8:00 a.m. to 5:00 p.m.
(Friday 8:00 a.m. to 12:00 p.m.)

Individual Price: \$2,700 (Includes snacks and lunch)

Location: St. Lucie Nuclear Plant
6501 S Ocean Dr, Jensen Beach, FL 34957

REGISTRATION

www.structint.com/offsite-dose-calculation-training-2027



COURSE OUTLINE

MODULE	MODULE TITLE	CONTENT
1	Definitions, Bases, Regulations, Controls and Surveillances	■ What is the ODCM? ■ Sources for Definitions ■ Importance of Definitions ■ ODCM Bases ■ Modifying the Bases
2	Concept of Pathway Analysis	■ Reg Guide 1.109 exposure pathways ■ Sources of radioactive effluents ■ Regulatory position regarding "significant pathways" ■ Environmental dispersion and migration of radioactive materials ■ Identify locations important to exposure ■ Industry best practices and lessons learned ■ Practical exercise
3	Liquid Effluent Monitoring	■ Review of governing regulations ■ Process radiation monitoring instrumentation ■ Liquid effluent controls and surveillances ■ Liquid waste sampling ■ Liquid radiation monitor setpoints ■ Liquid radwaste treatment system ■ NRC inspection procedures related to liquid effluents ■ Industry best practices and lessons learned ■ Practical exercise
4	Gaseous Effluent Monitoring	■ Review of governing regulations ■ Process radiation monitoring instrumentation ■ Gaseous effluent controls and surveillances ■ Gaseous waste sampling ■ Gaseous radiation monitor setpoints ■ Gaseous radwaste treatment system ■ NRC inspection procedures related to gaseous effluents ■ Industry best practices and lessons learned ■ Practical exercise
5	Dose Analysis	■ 10CFR50 ■ Reg Guide 1.109 ■ NUREG-0133 ■ Reg Guide 1.111 ■ Practical dose calculation
6	Additional Controls and Regulations	■ Liquid and gaseous dose ■ Ventilation exhaust treatment system ■ Total dose ■ Reg Guide 1.21 ■ Annual Radioactive Effluent Release Report ■ Reg Guide 4.15 ■ 10CFR50.75g
7	Radiological Environmental Monitoring Program	■ Regulatory requirements of the REMP ■ REMP controls and surveillances ■ Identifying REMP sample locations and media ■ NRC inspection procedures related to REMP

