

## Mark S. Strum

SUMMARY:	Mr. Strum has over 39 years of nuclear utility experience performing radiological assessments supporting the design, licensing and operation of both PWR and BWR nuclear power plant facilities. He has developed radiological effluent technical specifications (RETS) and off-site dose calculation manuals (ODCMs). He has performed dose impact and pathway assessments due to routine plant effluents (liquids and gases) as well as assessing fixed radiation sources. He has also conducted activities associated with off-site radiological environmental monitoring programs (REMPs). Mr. Strum has also provided radiological expertise as a member of an Integrated Safety Analysis (ISA) team involved with the preparation of a licensing application for two uranium fuel enrichment facilities. Also in support of these fuel enrichment license applications, Mr. Strum performed consequence calculations for postulated accident sequences, evaluated the expected radiological impact from routine plant operations and prepared the associated portions of the facility's Environmental Report. Mr. Strum has provided technical expertise for plant effluent monitoring activities, including the training of plant staff on the implementation of effluent control requirements. He has served as a technical specialist for quality assurance (QA) audits relating to RETS, ODCM and REMP implementation. He has evaluated
	radwaste volume reduction system designs, and directed assessments of low level waste (LLW) activities at operating plants to identify means of minimizing waste generation.
	Mr. Strum currently provides project management direction to a staff of engineers and scientists who provide technical support to nuclear facilities in resolving radiological related problems that require a level of expertise typically unavailable at individual stations.
EDUCATION:	MBA, Nichols College, 1994 MS, Radiological Sciences and Protection, University of Lowell, 1980 BS, Nuclear Engineering, Lowell Technological Institute, 1971



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PROFESSIONAL AFFILIATIONS/CERTIFICATIONS:	Health Physics Society, New England Chapter,	Member
EXPERIENCE:	AREVA NP Advisory Engineer	05/02 - Present
	Duke Engineering & Services Project Manager II	12/97-05/02
	Yankee Atomic Electric Company Senior Engineer	04/74-11/97
	Responsible for environmental dose assessme measured and postulated plant effluents radiological monitoring program evalua processing, storage and disposal assessmen support in the areas of effluent monitoring, ra technical specifications (RETS) and off-site manual (ODCM) implementation.	ents due to both s; environmental tions; radwaste ts; and technical diological effluent dose calculation
	Successfully performed several environments assessments supporting applications to the NF to use alternate means of disposal for ve contaminated soil and other materials.	al pathway dose RC for permission ry low levels of
	Designed and directed the Yankee Rowe Nucle Assessment Program for site outdoor characterization scoping studies supporting Decommissioning Plan.	ear Power Station ors radiological ng the plant's
	Prepared Technical Specification amendments revised NRC radiation protection standard sections 10CFR20.1001 to 20.2401. Assisted federal NRC requirements for low level r handling at several operating power plants preparing 50.59 safety evaluations to supp storage facility designs.	to implement the requirements of d in implementing adioactive waste , which included port on-site LLW
	Coordinated site design and procurement integrated solid waste volume reduction and so for a Seabrook Nuclear Power Station backfit.	activities for an lidification system



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	Participated in the American Nuclear Society (ANS) 55.1 Standard Radwaste Working Group to develop the ANS
	standard, "Solid Radioactive Waste Processing System for Light Water Cooled Reactor Plants."
	Evaluated and prepared several successful 10CFR20.302 / 10CFR20.2002 exemption applications to dispose of very low level contaminated materials at three nuclear reactor sites.
	Oversaw and assessed demographic studies for several reactor sites. Evaluated environmental impacts from routine releases of radioactive effluents from operating and proposed power stations. Performed design evaluations of radwaste systems with regard to 10CFR50 Appendix I as-low-as-is-reasonably- achievable (ALARA) criteria. Implemented ALARA criteria via plant specific Technical Specifications for day-to-day plant operations.
	Public Service Electric & Gas Company of New Jersey 06/71-04/74 Licensing Engineer
	Coordinated the Atlantic Generating Station's Environmental Report (ER), as well as ER amendments for the Hope Creek and Salem nuclear generating stations. Also, coordinated environmental radiation monitoring programs for the Salem, Hope Creek and Atlantic generating stations.
	Assisted in performing safety-related dose calculations associated with Final Safety Analysis Report (FSAR) design bases accidents, shielding analyses and site characteristic evaluations, including demographic and land use features.
CONTINUING EDUCATION:	EPRI LLW Conference and Radwaste Workshop, 1993, 1994, 1995 REMP / RETS Workshops, 1992, 1994, 1998, 2000, 2001, 2003, 2004, 2005, 2009, 2010 Knolls Radiation Detection and Measurements Seminar, 1992 MARSSIM Training, 2000 Radioactive Waste Packaging, Transportation, and Disposal Workshop, 2004