

NTB-1-2013

# Training Program Reference Material for Use with ASME/ANS RA-Sa-2009

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**NTB-1-2013**

**Training Program Reference  
Material for use with  
ASME/ANS RA-Sa-2009**

**Standard for Level 1/Large Early Release  
Frequency Probabilistic Risk Assessment for  
Nuclear Power Plant Application**

Part 1: General Requirements  
Part 2: Internal Events at Power  
Part 3: Internal Flood at Power

**Developed in cooperation with  
U.S. Nuclear Regulatory Commission  
PWR Owners Group  
ASME Standards Technology LLC**



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## 1.0 INTRODUCTION

Since 1998, ASME and ANS have been working on developing standards for a probabilistic risk assessment (PRA) for nuclear power plants. Their combined efforts resulted in joint publication of ASME/ANS RA-S-2008, “Standard for Level 1/Large Early Release Frequency Probabilistic Risk Assessment for Nuclear Power Plant Applications” and the subsequent publication of ASME/ANS RA-Sa-2009 on February 2, 2009. This standard “sets for the requirements for probabilistic risk assessment (PRAs) used to support risk-informed decision for commercial light water reactor nuclear power plants” and “establishes requirements for a Level 1 PRA of internal and external events for all plant operating modes.” (At this time, requirements addressing low power and shutdown conditions are not yet included.)

The requirements established in this standard, however, are not prescriptive. The standard establishes requirements that are defining “what” needs to be in a technically acceptable baseline PRA; the requirements do not define “how” to perform a technically acceptable baseline PRA.

This document provides the reference material that supports the training program (jointly developed by ASME, NRC and PWROG) on understanding and using the ASME/ANS PRA Standard.