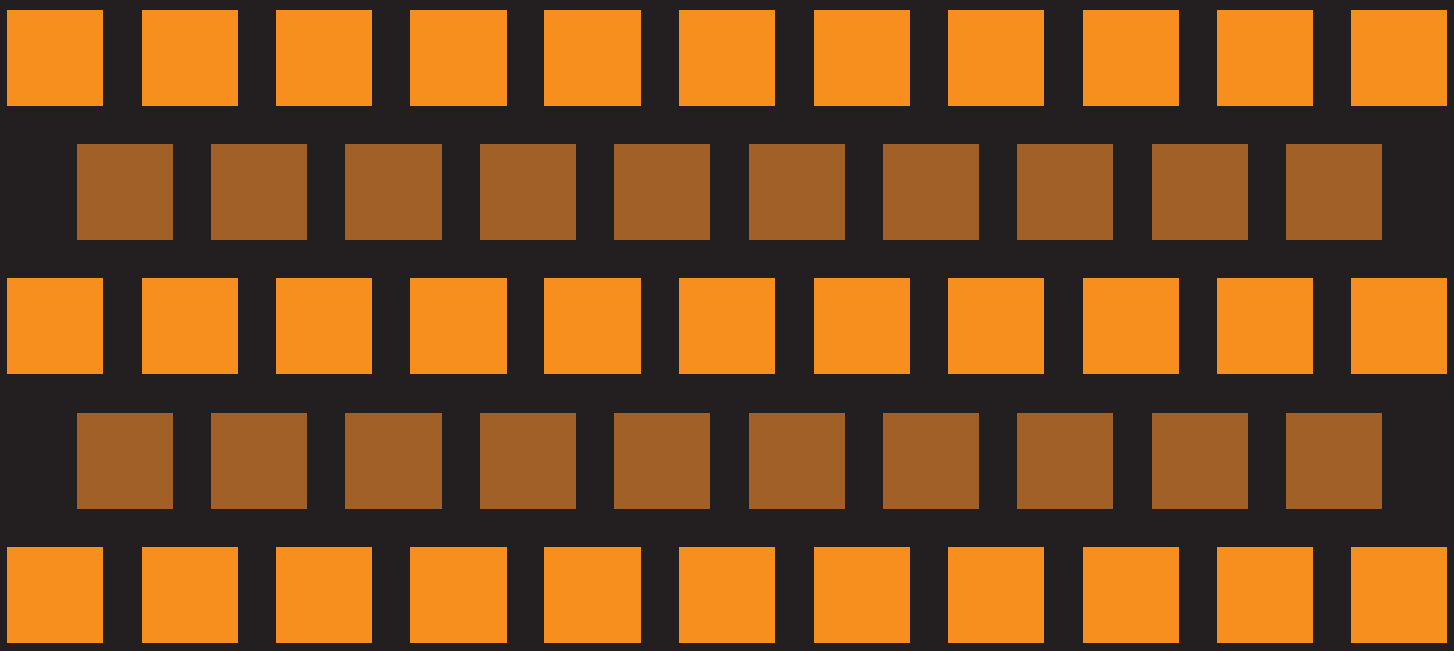
STP-NU-061

COMPREHENSIVE EVALUATION OF THE NSQ-100 NUCLEAR SAFETY AND QUALITY MANAGEMENT SYSTEM REQUIREMENTS



ASME STANDARDS TECHNOLOGY, LLC

STP-NU-061

COMPREHENSIVE EVALUATION OF THE NSQ-100 NUCLEAR SAFETY AND QUALITY MANAGEMENT SYSTEM REQUIREMENTS

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FOREWORD

This technical report was developed to comprehensively evaluate the NSQ-100 document and its related guidance documents against the corresponding ASME products. Comparisons were made of the various corresponding documents of ASME and the Nuclear Quality Standard Association (NQSA). The report discusses the competitive strengths and weaknesses of the NSQ-100 products compared to the corresponding ASME products.

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ABSTRACT

This technical report summarizes the assessment that was performed addressing the competitive strengths and weaknesses of NQSA products compared to the corresponding ASME products. The products compared during this assessment were the NSQ-100 document "Nuclear Safety and Quality Management System Requirements", Revision 0 with an issue date of December 2011 [1] and the corresponding ASME Standards; NQA-1 "Quality Assurance Requirements for Nuclear Facility Application Edition 2009a" [2] and "ASME Section III Rules for Construction of Nuclear Facility Components-Subsection NCA — General Requirements for Division 1 and Division 2 Edition 2010" [3].

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1 PURPOSE AND SCOPE

A number of concerns were voiced in the USA, Europe and Asia concerning how the NSQ-100 document was to be used by construction and engineering companies, regulators, standard developing organizations, vendors and suppliers. These concerns ranged from the validity of the document as a standard, how this new standard was to be used, its certification and accreditation activity, and the replacement of existing standards that have formed the basis of a large majority of new nuclear construction and existing nuclear plant replacements globally. This technical report provides the reader with results of an evaluation and assessment of the NSQ-100 "Nuclear Safety and Quality Management System Requirements".