Special issue on Nuclear Physical Security Risk and Uncertainty Analysis

Contents

iii  Foreword
    Douglas M. Osborn, Katrina M. Groth

CRITICAL REVIEW
S1  State-of-the-Art in Evaluation Approaches for Risk Assessment of Insider Threats to Nuclear Facility Physical Protection Systems
    Chris Faucett, Karen Vierow Kirkland

TECHNICAL PAPERS
S13  Computing Physical Security System Effectiveness at Commercial Reactors
    Matthew Talbot, Dan McCorquodale, Ian Broglie

S24  A Dynamic Risk Framework for the Physical Security of Nuclear Power Plants
    Robby Christian, Vaibhav Yadav, R. Steven Prescott, Shawn W. St. Germain

S45  Integrated Safety and Security Analysis of Nuclear Power Plants Using Dynamic Event Trees
    Brian Cohn, Todd Noel, Jeffrey Cardoni, Troy Haskin, Douglas Osborn, Tunc Aldemir

S57  Performance Testing of Person Passable Openings to Evaluate Accepted Risk
    W. Gary Rivera, Emily Sandt

S70  New Security Concepts for Advanced Reactors
    Alan Evans, John L. Russell, Benjamin B. Cipiti

S80  Possible Does Not Mean Useful: The Role of Probability of Attack in Security Risk Management
    Gregory D. Wyss, Adam D. Williams