



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001**
August 31, 2015

MEMORANDUM TO: Andrew Nosek
Accident Analysis Branch
Division of Systems Analysis
Office of Nuclear Regulatory Research

FROM: Patricia A. Santiago, Chief **/RA/**
Accident Analysis Branch
Division of Systems Analysis
Office of Nuclear Regulatory Research

SUBJECT: CERTIFICATION AS A MACCS ANALYST

Based on my review of your professional background, work experience, education, and successful equivalent completion of the MACCS Analyst Training and Qualification Plan, I have determined that you are qualified to perform technical review and application of parameters in the areas of consequence analysis work and modeling to support regulatory applications.

Your formal education includes a Bachelor of Science in Nuclear Engineering and a Master of Science in Nuclear Engineering and Engineering Physics from the University of Wisconsin-Madison. In addition, you have completed numerous training courses and equivalent workshops at the NRC or CSARP conferences including P-300, Accident Progression Analysis; P-301, Accident Consequence Analysis; P-111, PRA Technology; and R-800, Perspectives on Reactor Safety. You have demonstrated your competency with the MACCS code by completing all or significant portions of analyses supporting the State-of-the-Art Reactor Consequence Assessment project, the Level 3 PRA project offsite consequence analysis, and being the lead consequence analyst for the Consequence Study of a Beyond-Design-Basis Earthquake Affecting the Spent Fuel Pool for a U.S. Mark I Boiling Water Reactor.

Thus, through my evaluation of your NRC employment history, educational background and MACCS Analyst Training and Qualification Plan equivalency, I have concluded that you have the necessary skills and experience to perform assigned technical review and apply the MACCS code in analyses and parameter selection to support regulatory applications and consequence analysis work. Therefore, you are hereby certified as a qualified MACCS Analyst to perform technical reviews and analyses, research studies, confirmatory analyses, and licensing applications for activities related to consequence analysis.

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ADAMS Accession No: ML15233A064

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DATE	8/31/15	8/31/15

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