

# Sola Talabi, Ph.D.

Phone: 412 448 6823 | Email: sola@pit-tech.com

## PROJECT ROLE – Principal Investigator

Nuclear Engineering, Regulatory and Risk Management Expert.

## SUMMARY OF EXPERIENCE

Sola Talabi has 21 years' experience in the nuclear power industry. His experience includes nuclear power plant licensing and regulatory reviews gained through his role as the Westinghouse Advanced Reactors Risk Manager, which included support of the Westinghouse SMR and AP1000 development and licensing programs. Sola's responsibilities further included managing project development risk on the Westinghouse SMR. Sola was also an Interface Manager for the Electric Power Research Institute (EPRI), and a member of the Westinghouse Intellectual Property and Innovation Committees.

## EDUCATION

### Carnegie Mellon University

*Ph.D. in Engineering and Public Policy*

Pittsburgh, PA

July 2013

- Thesis title: "Advancing Risk Management in Nuclear Power Plant EPC Projects"
- Research topics: Schedule delays, licensing and regulatory risk management
- Advisors: Mitch Small, Paul Fischbeck

*MBA, Operations,*

May 2007

*M.Sc., Mechanical Engineering,*

May 2003

### University of Pittsburgh

*B.Sc. Mechanical Engineering*

Pittsburgh, PA

December 2000

## RELEVANT AND DIRECTLY RELATED EXPERIENCE

### Nuclear Industry Consulting Experience

Pittsburgh Technical

2014- Present

#### Senior Consultant

- Developed industry process for support and NRC rulemaking on SMR-specific emergency planning zone sizes.
- Establishing technical basis for risk-informed regulatory standards for small modular reactors

### Risk and Project Delivery Assurance Experience

Westinghouse Electric Co.

2001- 2014

#### Risk and Project Delivery Assurance Manager

- AP 1000 Design Control Document Support for Chapter 15 Safety Analyses on Removal of Airborne Activity from the Containment Atmosphere Following a LOCA
- UK AP1000 Environmental Report contribution

- AP1000 lessons learned
- Fukushima reconciliation, lessons learned and risk management efforts
- Probabilistic Risk Assessments

## **RELEVANT PUBLICATIONS**

1. Carless, Travis S., Paul S. Fischbeck, and Sola M. Talabi. "Risk and regulatory considerations for small modular reactor emergency planning zones based on passive decontamination potential." Energy (2019).
2. Biwalkar, Rohan M., Talabi, Sola M., Fischbeck, Paul S., "Quantification of Decontamination Factors for Small Modular Reactors – Findings from Empirical Studies." ANS Pacific Basin Nuclear Conference, San Francisco, CA (2018).
3. Biwalkar, Rohan M., Talabi, Sola M., Redus, Kenneth. "New Discoveries in Post-Accident Passive Decontamination of Advanced Reactors." ANS Winter Meeting & Expo, Orlando, FL (2018).
4. Biwalkar, Rohan M., Talabi, Sola M., Redus, Kenneth. "Sensitivity of Thermal-Hydraulic Parameters to Aerosol Removal Mechanisms in Integrated Small Modular Reactors." ANS Winter Meeting & Expo, Orlando, FL (2018).
5. Evidence of 2019 IR&D Hours based on Submitted/In-Press: R. M. Biwalkar, S. Singh, N. Sharma, and S. M. Talabi (2019).
6. Development of a Parametric Computational Fluid Dynamics Model to Estimate Passive Aerosol Decontamination. 18th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-18), August 18-22, Portland, OR, USA.
7. Assessment of Potential Improvements in Level II PRAs for Advanced Reactors Based on Improved Aerosol Removal Mechanisms, Rohan Milind Biwalkar, Sola Talabi (Pittsburgh Technical LLC), Kenneth Redus (Redus and Assoc LLC)
8. Nuclear Power Plant Evacuation: Gaps, Strategies, and Activity Scheduling, Adam Stein, Paul Fischbeck (Carnegie Mellon Univ), Sola Talabi (Pittsburgh Technical)
9. Talabi, S., "Risk Management to Support Deployment of Advanced Nuclear Reactors", Palisades Risk Conference, 2015;
10. Talabi, S., Fischbeck, P., "Advancing Risk Management to Improve Delivery of EPC Projects", Palisades Risk Management Conference, 2014;

## **Patents, Copyrights, Software Systems:**

Developed:

1. Modified Delphi method with Bayesian updating for enhanced risk elicitation – Carnegie Mellon University
2. SPARR (Standard Plant AP1000 Risk Register) – Westinghouse Electric Company

## **Synergistic Activities**

1. National Academy of Science and Engineering, Committee Member on Advanced Reactor Deployment 2010 – Present
2. International Atomic Energy Agency, researcher on Small Modular Reactor Emergency Planning Zone sizing
3. International Atomic Energy Agency, researcher on Advanced Reactor Emergency Preparedness
4. PhD advisor on Emergency Planning related research, Carnegie Mellon University
5. Academic researcher and presenter at multiple industry and academic conferences including American Society of Mechanical Engineers and American Nuclear Society.