

## Contact

23276 Southdown Manor Terrace  
Unit 105  
Ashburn, VA 20148  
USA  
1-703-729-1687 (Work)  
deytec@frontiernet.net

[www.linkedin.com/in/dr-monideep-dey-a130941b](http://www.linkedin.com/in/dr-monideep-dey-a130941b) (LinkedIn)  
[www.deytecinc.com](http://www.deytecinc.com) (Company)

## Top Skills

Engineering  
Research and Development (R&D)  
Research

## Honors-Awards

Special Achievement Award  
High Quality Award  
Keynote Speaker  
Appreciation for Workshop

## Publications

Fire Safety Publications  
Publications on Public Policy,  
Regulation and Standardization  
Fire Safety Engineering Newsletters  
Profiles in Conservation  
Quarterly Newsletters on  
Public Policy, Regulation and  
Standardization

# Dr. Monideep Dey

President of Deytec, Inc., USA  
Washington DC-Baltimore Area

## Summary

Monideep Dey, PhD, principal consultant for Deytec, Inc., provides consulting services on public policy, regulation and standardization. He specializes in sustainable development and trade facilitation.

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## Experience

Deytec, Inc., USA  
President  
May 2008 - Present (14 years)  
Washington D.C. Metro Area

The principal of Deytec, Inc. USA, Monideep Dey, PhD, provides consulting services on public policy, regulation and standardization matters (including conformity assessment). Dr. Dey specializes in sustainable development and trade. He serves as an US expert in international committees on standardization and trade.

Dr. Dey has been active in international standardization at ISO through the American National Standards Institute from 2011 through 2022. He served as an US expert to ISO's committee on conformity assessment (CASCO) from 2017 to 2022 where he contributed in the development of international standards, specifically for ISO/IEC TR 17032:2019, Conformity assessment — Guidelines and examples of a scheme for the certification of processes. He also has conducted research for CASCO's Strategic Alliance and Regulatory Group on conformity assessment for a circular economy.

Dr. Dey served as Chairman (Convenor) of ISO TC 92 SC 4 WG 7, Fire safety engineering: Verification and validation of calculation methods from 2013 to 2017. See further details below.

He has provided workshops for government and private sector professionals in Zambia, Ghana, Cote d'Ivoire and Senegal on trade, investment, and consumer protection.

International Organization of Standardization (ISO)  
Convenor (Chairman) of ISO TC 92 SC 4 WG 7, Verification and  
validation of fire calculation methods  
October 2013 - March 2017 (3 years 6 months)  
Geneva Area, Switzerland

Dr. Monideep Dey served in the U.S. delegation to the International Organization of Standardization (ISO) Technical Committee 92, "Fire Safety" for five years. He served as the chairman (convenor) of a quality safety engineering working group in ISO/TC/92 from 2013 to 2017. During his term, Dr. Dey initiated major initiatives at ISO/TC/92 to make its standards relevant in the international market, including for conformity assessment of fire safety designs to ensure quality and safety. Dr. Dey convened meetings in over 10 countries around the world to discuss these initiatives.

During Dr. Dey's Convenorship, the Technical Committee on Fire Safety revised its international standard for the assessment, verification, and validation of fire calculation methods to include enhanced validation and verification procedures that have resulted in much higher quality fire safety engineering practices worldwide. His work at ISO also focused on improving its fire safety standards for use in emerging markets and developing countries. He is recognized as an expert in the ISO system of international standards worldwide, as evidenced by the testimonials on his company website.

U.S. Nuclear Regulatory Commission  
Senior Engineer (GS-15, Step 10)  
May 1985 - October 2006 (21 years 6 months)  
Rockville, Maryland

Monideep Dey developed and managed several high profile and critical projects to enhance the safety of nuclear installations, including pioneering efforts to use standards in nuclear safety regulation. His efforts also included developing national public policy for nuclear safety. These efforts were supported by technical work on development of safety risk assessment techniques and engineering analytical methods.

Other duties and accomplishments include the conduct of international collaborative nuclear safety research programs, particularly the International Collaborative Fire Model Program conducted by the U.S. NRC from 1999 until 2008 to verify and validate fire models for performance-based fire safety design to ensure quality and safety. Dr. Dey was assigned to NIST as a guest researcher for four years to evaluate NIST fire models for use in nuclear safety

regulation. He also led other pioneering U.S.NRC initiatives for performance-based regulation, including for testing reactor containment vessels. Monideep Dey also led a high-profile successful program to implement cost-effective regulation.

Dr. Dey adhered to the highest principles of integrity in science and engineering, and the use of verified scientific data in regulation throughout his career at the U.S. NRC.

## National Institute of Standards and Technology

### Guest Researcher

January 2000 - September 2004 (4 years 9 months)

Gaithersburg, Maryland

Dr. Monideep Dey served as a guest researcher at the National Institute of Standards and Technology (NIST), U.S. Department of Commerce for 4 years as part of an inter-agency agreement for a collaborative program between the U.S. Nuclear Regulatory Commission (NRC) and NIST. His assignment was to evaluate the CFAST and FDS fire models developed by NIST for nuclear power plants applications, and to lead the International Collaborative Fire Model Project (ICFMP) (see Projects) initiated by the NRC.

His task was to evaluate and ensure that NIST fire models were verified and validated for use in the implementation of nuclear safety regulation. He initiated the first programs at NIST for the verification and validation of its fire models. His reports and findings are extensively documented and may be found on the Deytec, Inc. company website.

## Westinghouse Electric Company

### Senior Engineer

August 1980 - May 1985 (4 years 10 months)

Monideep Dey conducted safety analysis of the Nuclear Steam Supply Systems (NSSS) for nuclear power plants designed and supplied by Westinghouse Electric Company to U.S. and international utilities. Dr. Dey's duties included the development of engineering simulation methods, and the conduct of analyses in the areas of neutronics, thermal hydraulics, and plant operations. Monideep Dey developed design bases and functional requirement documents for safety and balance-of-plant systems for nuclear plants, including for innovative instrumentation and control systems with consideration of the man-machine interface.

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## Education

University of Michigan

Doctor of Philosophy (PhD), Nuclear Engineering · (1976 - 1980)

University of Michigan

Master of Science (MS), Nuclear Engineering · (1975 - 1976)

Queen's University

Bachelor of Science (BSc), Engineering Physics · (1971 - 1975)