

## PARTICIPANTS & ROLES

### USNRC Office of International Programs

Federal oversight: Technical direction and funding.

### Advanced Systems Technology and Management, Inc. (AdSTM)

Program implementation: program design, bilateral consultation, training development and instruction.

### Partner Country Regulators

Develop national regulatory program: IRDP membership is determined by the USNRC, and offers a unique opportunity to participate in an international collaborative program, focusing on enhancing a country's nuclear regulatory agency's effectiveness, and promoting knowledge transfer on a wide-range of regulatory topics.

- › Armenia (ANRA)
- › Philippines (PNRI)
- › Ghana (RPI)
- › Poland (PAA)
- › Indonesia (BAPETEN)
- › Romania (CNCAN)
- › Jordan (EMRC)
- › South Africa (NNR)
- › Kenya (RPB)
- › Tanzania (TAEC)
- › Lithuania (VATESI)
- › Thailand (OAP)
- › Malaysia (AELB)
- › Vietnam (VARANS)

### Support for Regional Networks

- › ANNuR/AAEA (Middle East)
- › ASEAN (Southeast Asia)
- › FNRBA (Africa)

### Collaborating Agencies

Support for training and consultancy.

- › International Atomic Energy Agency (IAEA)
- › South Korea (KINS)



## CONTACTS

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### [www.irdp-online.org](http://www.irdp-online.org)

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# USNRC INTERNATIONAL REGULATORY DEVELOPMENT PARTNERSHIP **IRDP**

Assisting countries with new or expanding nuclear power programs in their efforts to establish and maintain an effective nuclear safety and security regulatory authority.

MARCH  
2016



**“** The IRDP program offers us the unique opportunity of knowledge transfer from very knowledgeable staff with significant experience in both US regulatory and industry environments... We regard the support received through the IRDP program as a most valuable contribution to the development of our regulatory activities.”

- Dr. Gabrill Petre, President, National Commission for Nuclear Activities Control, Romania

Learn more online at [www.irdp-online.org](http://www.irdp-online.org)



# BILATERAL CONSULTING

## Regulatory Program: In-Country Requirements & Guidance

- › Collaborate with partner countries to develop a customized regulatory program, using USNRC best practices as the gold standard
- › Technical requirements and guidance covering all phases of reactor oversight for NPPs & RTRs
- › Guidance on siting/environmental application reviews, licensing, inspections, regulatory oversight, and technical reviews & benchmarking
- › Peer review of licensing submittals

## Organizational Structure

- › Staffing and Training
- › Organizational Structure
- › Staff Qualification Program
- › Technical Support

## Regulatory Development Strategy

- › Strategy for creating and implementing a regulatory oversight program
- › Guidance on schedule and resource requirements



Workshop on Small Modular Reactor Safety and Licensing for AAEA In Vienna, Austria - Jan 2016

# TRAINING MODULES

## Nuclear Orientation

- › Construction Inspections
- › Construction and Vendor Inspections
- › Vendor Inspections

## Regulatory Reviews

- › Environmental Reviews for Nuclear Power Plants
- › How to Manage a Regulatory Review
- › Power Uprate Review for Nuclear Power Plants
- › Reactor Construction Permit Application Review
- › Reactor Site Application Review
- › USNRC Licensing Process

## Regulatory Agency Infrastructure Development

- › Nuclear Executive Workshop (NEW)
- › Probabilistic Risk Assessment

## Safety Management and Fundamentals

- › Fundamentals of Reactor Regulation (FORR)
- › Fundamentals of Reactor Safety (FORS)
- › Nuclear Quality Assurance
- › Overview of Codes Used to Review License Applications
- › Practical Basics of Engineering Disciplines
- › US Industry Codes and Standards

## Special Topics

- › Fukushima Lessons Learned
- › Research and Test Reactors (RTR)\*
- › RTR Inspections & Certification Program\*\*
- › Small Modular Reactors\*

\* New for 2016 \*\* Under development

# PHASES OF OVERSIGHT

Our staff of experienced nuclear professionals, consisting of former NRC managers, senior nuclear industry professionals, and academia, are highly qualified to provide expert leadership in each of the following phases:

1. Siting
2. Construction Permit
3. Construction
4. Operating License
5. Authorization to Operate
6. Operation
7. Decommissioning