

# Risk-Informed Decision Making (RIDM)

## RIDM Levels 1 and 3 Workshops

### Agenda

November 4, & 5 - 7, 2014

Target Audience:  
Dam Safety Engineers for Licensees and Consultants

Speakers will include:  
Messrs. Patrick Regan, David Lord, Eric Gross, Bruce Brand, and Frank Blackett for the FERC

The Federal Energy Regulatory Commission's FY14 – 18 Strategic Plan has a stated objective to use risk-informed decision making (RIDM) for dam safety. The Division of Dam Safety and Inspections (D2SI) has been developing RIDM guidance to be used alongside its current standards based program. D2SI has previously provided RIDM training in Levels 1 through 3. In Atlanta, two workshops are to be held; the first day is a Level 1 workshop for those new to risk. The next 2 ½ days are a Level 3 Workshop for those that have previously attended earlier workshops. Level 3 will provide the FERC dam safety community an opportunity to experience a simplified risk analysis. RIDM concepts will be learned while participating in a small group setting.



#### Level 1 Workshop Tuesday, November 4, 2014

- 0800 Welcome and Introductions
- 0820 What is RIDM at the FERC – Objectives of This Workshop
- 0840 Benefits to Owners
- 0910 Definition of Key Terms
- Risk Analysis Concepts
- 0930 Qualitative Risk Analysis
- 1000 BREAK (15 min.)
- 1015 Quantitative Risk Analysis
- 1045 Consequences
- 1115 Potential Failure Modes
- 1145 LUNCH (1 hr 15 min)
- 1245 Internal Erosion
- 1330 Operational Failure Modes
- 1400 Flood Frequency Analysis
- 1430 BREAK
- 1445 Example Risk Analysis – West Pass Dike
- 1615 Overview of Mid-Columbia Pilot Risk Analyses
- 1630 Questions
- 1700 Wrap up

#### Level 3 Workshop Wednesday, November 5, 2014

- 0800 Welcome and Introductions
- 0810 Workshop Objectives and Plan
- 0830 Levels of Risk Analysis
- 0850 Probability Theory and Practice
- 0930 BREAK (15 min.)
- 0945 Probability Theory and Practice
- 1200 Lunch (1 hr)
- 1300 Probability Theory and Practice
- 1430 Event Trees and Subjective Probability
- 1500 Break (15 min)
- 1515 Example Background Briefing – Scoping Meeting
- 1545 Small Groups – Refine Example PFMs and develop probabilities for event trees nodes, including branches.
- 1700 Wrap Up

#### Level 3 Workshop Thursday, November 6, 2014

- 0800 Small Groups – Develop event tree branches and probabilities for each PFM node
- 1000 BREAK (15 min)
- 1015 Consequence Presentation
- 1045 Complete Consequences for each PFM.
- 1200 Lunch (1 hr)
- 1300 Develop final risk estimate for each PFM – Consequence pairs; develop additional information needed and potential risk reduction measures
- 1330 Develop Making the Case Document for presentation to Senior Oversight Group
- 1500 BREAK (15 min)
- 1515 Presentations by Small Groups – 15-20 min 5-10 min for questions
- 1700 Wrap up

#### Level 3 Workshop Friday, November 7, 2014

- 0800 Questions and Reports of All Small Groups 15-20 min 5-10 min for questions – as needed
- 1000 Break (15 min)
- 1015 Discussion of Overall Risk Analysis results
- 1100 Risk Assessment
- 1130 Comments/Concerns/Questions
- 1200 Wrap-up

#### VENUE

The Holiday Inn & Suites Atlanta Airport North  
1380 Virginia Avenue  
Atlanta, GA 30344  
404-305-9990

#### REGISTRATION INFORMATION

Registration is free but will be limited to 80 participants.

#### REGISTRATION INFORMATION (CONT)

To register, please go to the event date on the FERC Calendar at:

<http://www.ferc.gov/EventCalendar>

#### Contact:

Natalie Leech  
FAX: 202-219-2731  
Phone: 202-502-6396  
Email: [Natalie.Leech@ferc.gov](mailto:Natalie.Leech@ferc.gov)

#### LODGING INFORMATION

The Holiday Inn & Suites Atlanta Airport North  
1380 Virginia Avenue  
Atlanta, GA 30344  
Reservations: 800-HOLIDAY or 855-862-4908  
You must mention: Federal Energy Regulatory Commission and the Room Rate of \$135 per night

#### TRAVEL INFORMATION

**From the Atlanta Hartsfield Jackson International Airport:**  
Hotel has a 24 hour shuttle.

#### PRESENTATIONS

Previous presentations available at  
<http://www.ferc.gov/industries/hydropower/safety/initiatives/risk-informed-decision-making.asp>