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Overview

- Provide an overview of basic risk management concepts
- Review how risk management applies to various components of Utilities and Energy Management

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General Concepts

Risk

 The hazard or chance of loss - Impact and Probability

Risk Management

- Identify risks
- Categorize and rank risks
- Mitigate risks

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Risk Assessment Types of Risk - PEAR People Environment Assets Reputation

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Risk Assessment Impact Factors: Permanence or Restorability Financial Reputation Cascading

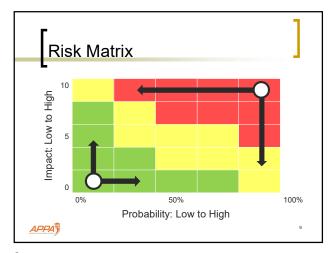
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Risk Assessment Probability Factors: Geographic/Location Experience Knowledge/Skill Level Condition of Equipment

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Risk Assessment – Your Role Understand how your institution perceives and manages risk Integrate your approach to align with institution Collaborate

Risk Assessment Two Common Approaches: Basic Risk Matrix -relatively easy -can be "internally" developed Enterprise Risk Management (ERM) -more complex -Audit/Compliance Office





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Primary Categories • Health and Safety • Reputation • Operational • Strategic • Compliance • Finance

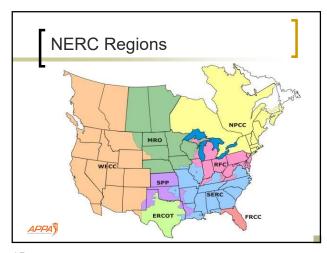
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Risk Mitigation Reduction – reduce impact or probability Replace susceptible equipment Control – minimize damage Plan for backup housing Transfer – assign responsibility to others Get insurance Acceptance – live with the risk For "low impact/low probability" Avoidance – stop doing the risky activity

Understanding Your Context National Regional State Local Campus





Risk Management - Desired Outcomes

- Reliable rarely fails
- **Redundant** backup options
- **Resilient** recover quickly/seamlessly
- Efficient minimize waste

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Roles and Responsibilities

The Institution

- What comprises risk
- Acceptable levels of risk
- Resources provided for mitigation

Facilities Management

- Identify and communicate facility risks
- Outline solutions and costs
- Insure effective implementation

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Discussion

- Have you experienced a catastrophic failure in your career?
- What happened and what steps did you take to prevent recurrence?

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Risk Management Session 2

Group Exercise after the break

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Managing Risk

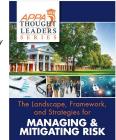
- Identify your most critical processes
- 2. Determine failure modes
- 3. Use risk matrix to prioritize
- 4. Develop solutions for high risks
- 5. Mitigate high risks if possible
- Communicate high risks that can't be mitigated

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Questions, Comments, Observations?

- Sign-in Sheet & Evaluations
- Related Electives
 - 363 Disaster Prep and Business Continuity
 - 373 Energy Conservation
 - 325 Electrical Systems Planning, Reliability, and Safety



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