### Principles of Nuclear Safety

#### Module 8

# Operating Policies & Principles (OP&P)

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## Purpose of OP&P

- to define the boundaries for plant operation, maintenance and modification
- ◆ to keep public risk acceptably low

#### Three Types of OP&P Boundaries

- 1) Limits on authority of authorized positions- ensures adequate defense in depth
- 2) Assumptions of the Safety Analysis
- Recognized good operating practices based on conservative reactor safety principles and industry operating experience

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#### **OP&P Violations**

- ◆ Must never occur intentionally
- ◆ Must be formally reported to the AECB
- Potentially put the plant into an unanalyzed, unsafe state
- When an OP&P violation is discovered:
  - the affected system is to be placed in known safe state using procedures approved by the Manager, or the reactor placed in safe shutdown state

## SS Responsibilities

- ◆ Ensure strict OP&P compliance
- ◆ Communicate his expectations to the crew
- ◆ Bear OP&P in mind when authorizing O&M
- Ensure safety features credited in safety report are disabled only with compensating, AECB approved safeguards
- ◆ Know & observe the limits of SS authority

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#### **CRO** Responsibilities

- Observe OP&P constraints featured in operating instructions
- ♦ Notify the SS immediately upon discovering OP&P non compliance

## Possible Consequences of OP&P Non Compliance

- ◆ Plant in unanalyzed, unsafe state
  - transients might cause accidents
  - mitigation capability may be impaired
- ◆ Decreased defense in depth on change control and critical O&M authorization
- Inferior operating practices increase nuclear safety risk

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