Achieving Industry Best Practice in Radiation Protection

Kristi McBlain
Julia Dinner
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Presentation Outline

1. Introduction to Kinectrics
2. Radiation Protection Program
3. Radiological Facility Renovation
4. Questions
Kinectrics Inc.

- Established, independent company
- Formerly R&D Ontario Hydro
- 100 years of advanced technical expertise and experience
- Over 400 scientists, engineers and professional staff
- Comprehensive facilities more than 20 advanced specialized laboratories
Kinectrics

Organized around centres of excellence

NUCLEAR PARTS

MATERIALS & MAJOR COMPONENTS

STATION CHEMISTRY & WASTE

SAFETY & LICENSING

INSPECTION & TOOLING SYSTEMS

TRANSMISSION & DISTRIBUTION

Dedicated laboratories + World-class staff = High value solutions

We bring together multi-disciplinary teams to solve our clients’ toughest problems
Kinectrics Specialized Facilities

EQ, CGD and Mechanical Testing Labs

Analytical and Radiochemistry Labs

Radioactive Materials Characterization Facility

High Voltage and High Current Labs

Environmental Testing and Technologies
Radiological Facilities

KJ Laboratories
Radiological Facilities

KJ Laboratories
Radiological Facilities

Tritium Laboratory
Radiological Facilities

Warm Cell
Radiological Facilities

Decontamination and Refurbishment Facility
Radiation Protection Program
Radiation Protection Program

• RP Program upgrade to allow for growth of the company
• To incorporate benchmarking:
  – WANO GL 2004-01 Guidelines for RP
  – EPRI Alpha Monitoring and Control Guidelines
  – Various CNSC regulatory documents and guides
  – Nuclear industry experience
RP Program Upgrade Approach

- RP benchmarking
- Technical basis documents
- RP Program redevelopment
- RPP and form redevelopment
- RP Program implementation
- Ongoing assessment and improvement
RP Program Elements

- RP organization and administration
- RP training and qualification
- Management of nuclear substances
- Radiological hazard control
- Radiation dose control
- Radioactive work planning and control
- Radiological incident response
- Facilities and equipment
RP Program Status

- Upgraded RP Program has been written and approved
- First phase of RPPs in development
- Communication of the new RP Program and first phase of RPPs is planned before the end of 2017
- Subsequent phases of RPPs to be developed and communicated
- Ongoing assessment and improvement
Renovation
Renovation

• Needed dedicated space for outage and refurbishment tool development, construction, testing, decontamination, and maintenance.

• Lab had not been renovated since an expansion in 2008.

• Some equipment needed to be repaired/replaced.
Renovation

• Housekeeping improvements:
  – Painting and sealing floor
  – Improving lighting

• HVAC improvements:
  – Upgrading valves from mechanical to electronic controls
  – Replacing worn ducting
  – Removing extra ducting runs
Renovation
Renovation

Please Unpack Before You Enter!!!

Reminder: All waste in Zone 3 is considered rad waste!!!
Let's not make more than we need to.

Please make use of the garbage and recycling bins in the lobby and

_unpack before you enter_

THANK YOU 😊

Please DO NOT make these Rad Waste!!!

No task is so important that we cannot make the effort to do it safely.
Questions?

**Kinectrics** – *Head Office*
800 Kipling Ave. Unit 2  
Toronto, Ontario  M8Z 5G5  
416.207.6000

**Candescro** – *Division of Kinectrics*
26 Wellington St. East, 3rd Floor, 
Toronto, Ontario  M5E 1S2  
416.585.2552

**Kinectrics** – *Pickering Office*
940 Brock Road, Unit 11  
Pickering, Ontario  L1W 2A1  
905.420.4242

**Kinectrics** *US*
7251 E. Kemper Road  
Cincinnati, Ohio. USA 45249  
513.247.9039

www.kinectrics.com