OPG Emergency Preparedness

Stan Whatmough, Section Manager Emergency Preparedness

2021 Program Overview

ONTARIO POWER GENERATION

Agenda

1 | OPG Emergency Preparedness Overview

2 | 2020 Highlights

3 | 2021 Priorities

OPG Emergency Preparedness Dept

- Driven by the requirements of CNSC RegDoc 2.10.1 and Provincial Nuclear Emergency Response Plan (PNERP)
- Implement and maintain emergency response capability within OPG Nuclear
- Maintain OPGN Emergency Response Organization (ERO) facilities and equipment
- Oversee the ERO training and qualification program, and roster of qualified staff
    - +1,500 staff linked to ERO qualifications, 54 different qualifications
- Conduct drills & exercises to confirm effectiveness of emergency plans
- Liaise with off-site authorities and stakeholders to align and integrate emergency plans
    - CNSC, Province, Region of Durham, City of Toronto, etc.
- Assessments conducted to demonstrate program performance and continuing improvement
    - Internal: Self Assessments, Nuclear Oversight
    - External: CNSC inspections, Nuclear Safety Review Board, WANO, IAEA EPREV

EP Pillars

1. Program Excellence

Strengthen OPG's social license through a robust EP program which is integrated with station goals, to ensure the protection of employees, the public and the environment

2. Perfect Practice

Maximize the Emergency Response Organization's effectiveness through drills and exercises that are realistic, challenging and evaluated against a high standard

3. Constant Improvement through Innovation

Develop a culture of continually challenging the status quo to improve the EP program through a cycle of:
Ideation → Innovation → Integration → Iteration

ONTARIO POWER GENERATION

2020 Highlights

- **Drills & exercises:** Successfully completed drills with all crews at Pickering and Darlington, plus 1 inter-operability exercise, use of virtual platforms, revised protocols for drill control/evaluation, and new drill scenario elements
- **COVID**: Enhanced cleaning and staff protection protocols within Emergency Response Organization (ERO), revised assembly & accounting protocols, virtual response guidelines, cross trained ERO to build additional resiliency
- **Jan 2020 'False Alert' & KI Pills**: Delivered unprecedented number of KI pills to requesting residents & businesses (1.6M in first 6 months!)
- **External assessments**: WANO at Darlington concluded the strength of OPGs EP program, plus several lessons learned to continually improve
- **Innovation:** Several new technologies, tools, streamlined processes implemented in 2020 to improve service delivery – Cloud based data management, drill evaluation tablets, virtual training, technology refresh in response facilities to improve effectiveness
- **Transportation Emergency Response**: Revised Mutual Aid Agreement between Canadian utilities
- **Resilience**: Delivered resilience training for key ERO decision makers

2021 Priorities

- **Drills & exercises**: Continued implementation of full drill schedule through pandemic, including new and challenging drill scenarios
- **Partnerships**: Maintain strong partnerships with external partners through regular discussion and alignment
- **External evaluations**: CNSC audits, 2021 Pickering WANO evaluation
- **Technology**: Upgrades to emergency communication software tools (WebEOC)
- **Innovation**: Offsite Survey Team restructuring, adoption of new software and technology
- **Organization**: Redesigning organization to build capability and agility
- **Resourcing**: Building proficiency of several new staff to department to improve organizational agility
- **New Nuclear & SMRs:** Supporting OPGs SMR initiative with staff and expertise on EP issues

For more information, visit: www.opg.com/nuclearsafety

Copyright 2021