

# ONTARIOPOWER GENERATION

1549 Victoria Street East, Whitby, Ontario, L1N 9E3

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**To: Building Trades Unions**

**Re: Protocol for Training of BTU Radiation Protection Coordinators (Greenpersons)**

This document outlines the protocol for selecting BTU candidates for the training and field experience program which will qualify them to perform Radiation Protection Coordinator (RPC, also known as "greenmanning") duties at OPG Nuclear facilities. Employment may require them to work for a contractor.

All parties agree that the safety duties, functions and accountabilities associated with the role of a Radiation Protection Coordinator are challenging and require particular commitment to providing safety leadership. RPC's are accountable for the health, safety and well being of self and others, in accordance with technical/operating procedures and standards.

Given the training and experience commitment and its technical content, all RPC candidates must meet certain prerequisites that will help ensure success in qualifying examinations and aptitude for the type of duties for the role. These prerequisites include:

- a set of written aptitude and RPC Role Orientation questions to ensure that candidates have a clear understanding of the typical tasks and expectations for a qualified RPC
- screening tests that are consistent with other trainees considered for this role
- being willing and able to work in the specified Work Conditions
- being committed to completing the Yellow and Green RPC experience requirements by working in the role of a RPC to acquire the experiential component to attain the full Green RPC qualification

Anyone not able to complete the written aptitude screening test and/or who fails to complete the Yellow training will not be considered for an RPC position.

**Prerequisites**

1. Union member in good standing
2. Minimum of grade 12, applicable community college or C of Q (or equivalent)
3. Nuclear work experience or relevant industrial work experience (2 years minimum)
4. Currently Security cleared and Orange Badge qualified at OPG
5. Journeyman qualification in one of the trades (apprentices not eligible)

## **RPC Role Orientation**

### **Duties of a Radiation Protection Coordinator**

Responsibilities are consistent with training and experience in industrial structures, equipment, systems and facilities. In accordance with prescribed safety procedures and regulations, performs radiation protection duties:

- a) Review hazards and conduct surveys to confirm hazard levels to ensure that all radiation protection conditions in the work instructions are accurate at the time of work execution. Document findings and place barriers and post-hazard warning as required. Evaluate survey results identify areas where hazard controls need to be adjusted or additional radiation protection measures are required.
- b) Participate in pre-job briefings and post-job debriefings on radiological aspects.
- c) While acting as a Radiation Protection Co-ordinator, prepare and review the required documentation. Ensure proper and functional personal protective equipment, dose monitoring devices, communication equipment. Ensure proper radiation and contamination controls are in place. Operate teledosimetry systems and devices. Complete post job requirements including housekeeping and all documentation and reporting requirements.
- d) Observe work, coach personnel and ensure workers appropriately use radiation protection equipment and techniques as per Radiation Protection Procedures, work instructions and policies. On observing procedural non-compliance, STOP employee or work from proceeding and remove employee to a safe location to discuss deviation from or deficiencies in the application of approved procedures to obtain compliance. Refer to appropriate Manager for resolution.
- e) Prepare and process radioactive material for shipment. Perform routines such as unit walk downs, field surveillance and data collection for performance indicators or investigations. Carry out orientations to physical plant lay-out, etc. Assist with decontamination of plant personnel, tools, equipment, and areas.
- f) Accountable for the health, safety and well being of self and others, in accordance with technical/operating procedures and standards.

### **Work Conditions**

- Working at heights
- Climbing vertical ladders
- Walking on slotted floors and gratings
- Working in excessively hot environments
- Working in confined spaces

- Working in, and around, noise
- Working in areas containing ionizing radiation
- Having to wear cumbersome protective equipment and clothing
- Changing in and out of protective clothing which would require nudity amongst same-sex co-workers
- Working rotating 12-hour shifts, including weekends, evening and stat holidays
- Having no access to food and water while wearing plastic suits for extended periods of time, up to 5 hours
- Should not have any concerns with being held responsible for the safety of those he/she is protecting

**Aptitude Screening Test (written tests)**

1. Following Instructions
2. Verbal Evaluation
3. Numerical Comprehension
4. Fault Diagnosis

The Aptitude Screening Test pass/ fail criteria is mandated by a minimum composite score comprised of the four individual test results. Any individuals who fail to achieve the minimum composite score will not be eligible for the RPC training course.

**RP Qualifications Training**

Yellow – 6 weeks. Three written exams and 4 Practical evaluations.


After successful completion of the Yellow/Green Experience Requirements:

Green – 1 week. One written exam and 1 Practice Evaluation.

**Yellow/Green RPC Experience Requirement**

Upon completion of the Yellow training course, trainees will only hold a Yellow qualification until they have demonstrated that they are qualified and competent to progress to a Green qualification. This is accomplished by successful completion of the field experience package where the various tasks and duties of an RPC are evaluated by a qualified RPC in the field and the trainee is deemed fully qualified to perform the RPC role.

This experiential component normally takes approximately 6 months and requires them to be working at OPG sites and performing the duties of a RPC under the direction and coaching of a fully qualified RPC.

  
 Ephraim Schwartz  
 Director of Radiation Safety (Acting)