

## New York State's Split Sampling Protocol Effluent Discharges from Indian Point

### **Overview:**

New York State entered into an agreement with Holtec outlining a protocol for sampling radiological and non-radiological effluent from the Indian Point facility (the Site).

### **What effluent will be sampled?**

Two samples will be taken from each source listed below:

- Unit 2 and Unit 3 Spent Fuel Pools (SFPs)
- Unit 2 and Unit 3 Reactor Cavities/Refueling Water Storage Tanks (RWSTs)

and

Samples will be taken from each of the following locations at a variety of intervals:

- The Site's Discharge Canal and
- The Roseton control location

### **How will sampling occur?**

- Effluent is treated and transferred to the Liquid Waste Processing Systems and is processed for release to the Discharge Canal.
- For each source, the first sample will be taken after the effluents are processed but before discharge.
- The second sample will be taken after approximately 50% of each source volume has been discharged.

### **How will the sample be taken and processed?**

The samples taken at the Site are in a Radiologically Controlled Area and are considered Radioactive Material. Samples will be handled by qualified Site personnel. Sample collection will be witnessed by New York State personnel. The samples will be split and shipped to the laboratories as specified by Holtec and New York State. New York state will use Wadsworth labs and a NYSDEC contract lab.

### **What will New York State analyze and to what standard?**

#### Radiological Components:

H-3, Gamma spectroscopy (some typical isotopes may include: Mn-54, Fe-59 Co-60, Co-58, Zn-65, Zr-95, Ru-103/106, Cs-134/137, and naturally occurring radioactive material (NORM)), Gross-Alpha, Gross-Beta, SR-89, SR-90. Gross alpha, gross beta, gamma spectroscopy and tritium will be analyzed following EPA methodologies: Gross Alpha/Gross Beta: [EPA Method 900.0](#); Gamma Spec: [EPA Method 901.1](#); and Tritium: [EPA Method 906.0](#).

#### Non-radiological Components:

Polychlorinated biphenyls (PCBs), Total Suspended Solids (TSS), Oil & Grease, Boron will be analyzed to SPDES Permit effluent limits, and an analysis for EPA Priority Pollutants (listed in 40CFR423) to regulatory standards.

### **How long after sampling will discharge take place?**

Holtec will wait no more than 12 business days from the sampling date to allow for review and comparison of data by Holtec and New York State.