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Have a Happy and Safe Holiday

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Act, exemptions 4, 6  
FOIA- 2007-0080

*cpw*

## Indian Point Energy Center

## Status Report

December 21, 2006

## Operational Status

Unit 2 is operating at 100% and has been on-line for 21 days. Unit 3 is operating at 100% reactor power and has been on-line for 153 days.

## Groundwater Investigation Update

Entergy has completed the drilling of the monitoring well field. There are 36 wells located across the site that are being used to develop the groundwater model and monitor for contaminants.

\* Entergy will begin non-destructive testing in January of the IP2 spent fuel pool transfer canal to determine if any areas identified on the video inspection are likely through-wall leaks

\* A dye tracer test to determine flow velocity and direction is scheduled to begin on Jan. 9. The test is expected to last about 3 months

\* Tritium concentrations were reduced during the recent recovery well pump test. The tritium concentration in RW-1 at the beginning of the test was about 100,000 pCi/L and dropped to 19,000 pCi/L at the end of the test. Levels remained lower (30,000 pCi/L) three weeks later. A similar drop was observed in MW-30, the well located inside the [REDACTED]. The tritium concentration was reduced by about half. This is a limited data set but does provide some evidence that groundwater tritium levels can be reduced in this fashion

\* Tritium levels in MW-49 and MW-50, located down gradient on either side of the discharge canal, also dropped after the pump test. The November results show levels at 1700 pCi/L and 6400 pCi/L respectively.

\* The investigation team has been reviewing historical records and site schematics to provide insight on the basis for observing radionuclides, principally Sr-90 south of Unit 1.

The site's hydrogeology would not explain contaminates in this area. The most likely explanation is that water from a contaminated Unit 1 sump system was pumped into a drainage system in this area. The drainage

Exempt 4

system has been modified during the construction of Unit 3. The re-routing of drainage lines forced water flow to the south and west of Unit 1. The system was modified in 1994 when the contaminants were discovered in the drain system. Since that time no contaminated water has been pumped into this system. Cesium-137 has been detected in the soil sediments in the drain system and in wells down stream of the system.

\* Sample results have been obtained from MW-63, MW- 58 and MW-59, which are located near the discharge canal. Cesium-137 has been detected in these wells, most likely due to the residual contamination from the storm drain system mentioned above and historical spills. Results were MW-58: 73 pCi/L; MW-59: 115 pCi/L; MW-63: 27 pCi/L. These levels are well below the reference drinking water standard of 200 pCi/L. No Strontium -90 has been found in these wells indicating that the Cesium is residual from operations in the 1970s and 1980s

\* Radionuclide levels continue to show a downward trend in MW-42, the well located closest to the Unit [REDACTED] levels of Cs-137, Ni-63 and Sr-90 have decreased by a factor of 4 to 5. These reductions are likely due to the remediation efforts in the Unit 1 [REDACTED] itself.

Exempt 4

\* NRC inspectors are on-site this week to assess the plans for the tracer test and the results of the pump test in RW-1

#### Educational Outreach

Entergy Nuclear Northeast provides customized outreach education programs for schools, youth groups, and civic organizations. The topics we cover include Emergency Planning, Understanding Radiation, Nuclear Fuel and a general overview of the operations of Indian Point Energy Center. If you would like a brochure or are interested in scheduling a program, contact IPEC Communications at 914-271-7441.

If you have any questions or need clarification of the information provided, please contact Kathy McMullin, manager of communications, Indian Point Energy Center, at 914-271-7132.

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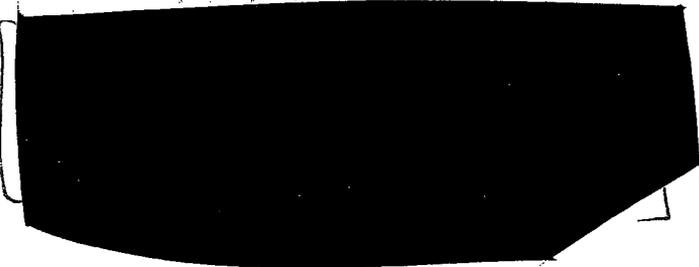
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