

John Boska - IPEC status report for May 11 2006

From: "McMullin, Kathleen M" <KMcMull@entergy.com>
To: <Popopeek@aol.com>, "Baranski, James" <james.baranski@semo.state.ny.us>, "Eddy, Paul" <paul_eddy@dps.state.ny.us>, "Greeley, Dan" <greeleyd@co.rockland.ny.us>, "Gross, Steve - Orange PIO" <sgross@co.orange.ny.us>, "Sutton, Tony" <aws1@westchestergov.com>, <AStiebeling@pcb.es.org>, "Albanese, Raymond" <rla1@westchestergov.com>, "Alfredo Vidal" <avidal@thevidalgroup.com>, <aws1@westchestergov.com>, "B. Gore" <bgore@urbanomics.com>, <bakerna@co.rockland.ny.us>, "Barry, Terrence" <TBarry@entergy.com>, "Benjamin, Liz" <BenjamiL@co.rockland.ny.us>, "Bentley, Robyn M" <rbentle@entergy.com>, <ken.bergmann@semo.state.ny.us>, "Bernie McGarry" <mcgarry@senate.state.ny.us>, "Blizard, Andrea J" <ablizar@entergy.com>, <rjo4@westchestergov.com>, <jean_bordewich@schumer.senate.gov>, <schumer@valstar.net>, <jpb1@nrc.gov>, "Bowman, Greg" <GBowm90@prod.entergy.com>, <beh@nrc.gov>, <JBridges@troopers.state.ny.us>, "Chief Tubbs" <ChiefBTubbs@aol.com>, "Chris Schwarz" <cschwar@entergy.com>, <ewc@nrc.gov>, "Comiotes, Jim" <JComiot@entergy.com>, "Conroy, Patric W" <PConroy@entergy.com>, <lindac@yorktownny.org>, "Cox, Mark R" <mcox90@entergy.com>, <Gcrawford@urbanomics.com>, "Curran, Nick" <Nick.curran@mail.house.gov>, "Dacimo, Fred R" <FDacimo@entergy.com>, "David Brand" <DavidPBrand@hotmail.com>, "David Greene" <dgreene@urbanomics.com>, "David Weinraub" <DWeinraub@bmwlobby.com>, "DeGasperis, Edward M" <edegasp@entergy.com>, "DiRocco, Anthony J" <ADirocc@entergy.com>, <Donald.Maurer@semo.state.ny.us>, "Dowling, Adele" <amd2@westchestergov.com>, <Barney.Drew@lafarge-na.com>, <elisagwilliam@msn.com>, "Fay, Deborah" <DFay1@entergy.com>, "Feathers" <jdf@fcwc-law.com>, <Andrew.Feeney@semo.state.ny.us>, <peter.feroe@mail.house.gov>, "Geri Shapiro" <gerishapiro@aol.com>, <Emily.Gibbons@mail.house.gov>, "Giguere, Kathleen M" <KGiguer@entergy.com>, <grtroes@nppd.com>, "Gottlieb, Laurence" <LGottli@entergy.com>, "Greene, Dominick" <dgreene@co.orange.ny.us>, <gac7@westchestergov.com>, "Grosjean, Alain G" <AGrosje@entergy.com>, <Frank.Guiaio@lafarge-na.com>, "Harry Giannoulis" <harry@theparksidegroup.com>, "Hinrichs, Gary H" <ghinric@entergy.com>, "Hipschman, Thomas" <thips90@entergy.com>, "Inzirillo, Frank A" <finziri@entergy.com>, "Ira Promisel" <ipromise@troopers.state.ny.us>, "Jack Spath" <jps@nyserda.org>, <dej1@nrc.gov>, <jefft@townofcortlandt.com>, "Jensen, Chris" <jensenc@co.rockland.ny.us>, "JES" <JES1@westchestergov.com>, "Jim Cunningham" <jim_cunningham@nyc.bm.com>, "Jim Wright" <wright@senate.state.ny.us>, "John Cordo" <JLC@fcwc-law.com>, "Jones, T. R." <tjones2@entergy.com>, "Kansler, Michael R" <MKansle@entergy.com>, "Kathleen Wood" <kathleen.wood@chamber.state.ny.us>, <Pat.keegan@mail.house.gov>, "Kerns, Matthew T" <MKerns@entergy.com>, <MKopy@troopers.state.ny.us>, <kevin.kraus@semo.state.ny.us>, "L. Leach" <lionelleach@yahoo.com>, "Leach, Don" <DLeach@entergy.com>, <leibell@senate.state.ny.us>, "Leon, Pete" <Pete.Leon@mail.house.gov>, <DCL@nrc.gov>, "Longo, Nick" <longon@co.rockland.ny.us>, "Mark Serrano" <serrano@proactivecom.com>, "Martin Brennan" <Martin_Brennan@schumer.senate.gov>, "Marvin Randolph"

B //

<mrandolph@urbanomics.com>, "Mayer, Donald M" <DMayer1@entergy.com>, "McCann, John (ENNE Licensing Director)" <jmccan1@entergy.com>, "McCannell, Chris" <Chris.mccannell@mail.house.gov>, "McConaghy, Ryan" <ryan_McConaghy@schumer.senate.gov>, "McGillicuddy, Maura" <MMcGill@entergy.com>, "McKay, Mike" <mike.mckay@mail.house.gov>, "McMahon, Bob - Putman County" <cdrbob31@aol.com>, "McMullin, Kathleen M" <KMcMull@entergy.com>, <millera@assembly.state.ny.us>, <MillerC@co.rockland.ny.us>, "Mitchell, Frank J" <FMitche@entergy.com>, "Neil Sheehan" <nas@nrc.gov>, <rand@schildasset.com>, <jdn@nrc.gov>, <Joseph.o'brien@mail.house.gov>, <boliveira@amnucins.com>, <doneill@bghc-law.com>, "Pat Brown" <PBrown@bmwlobby.com>, "Paul Steidler" <paul@effectivecomm.org>, "Paul Tonko" <tonkop@assembly.state.ny.us>, "Paulson, Adam" <adam.paulson@mail.house.gov>, <alp@nyserda.org>, "Phillips, Frank M" <fphilli@entergy.com>, <pjk3@westchestergov.com>, "Poquette, Thomas" <thomas.poquette@lafarge-na.com>

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See also the attached map with phase 2A proposed well locations.



Indian Point Energy Center Status Report

May 11, 2006

Operational Status – 2R17 Outage

Unit 2 continues in the last week of the 2R17 outage. Last week a contract worker supporting the reinstallation of the reactor core barrel exceeded his electronic dosimeter (ED) accumulated dose alarm set point by 174mrem. The worker was located on the top of the polar crane inside the vapor containment and was responsible for the alignment of the core barrel in the reactor vessel.

When the core barrel reached its maximum height above the cavity level, several electronic dosimeter dose rate alarms were received by workers associated with the evolution. Radiation Protection personnel were monitoring the evolution from a remote monitoring station and informed the technicians of the dose rate alarms. The RP staff providing job coverage immediately informed the lift crew supervisor to stop the lifting and transport operation. A decision was made to to continue the transport of the core barrel toward the reactor vessel to place the load into a safe condition. As a result of the continuation of the job, a worker positioned on top of the polar crane received 474 mrem of exposure. Entergy is conducting a investigation into this incident. The federal limit for radiation workers is 5000 mrem/year. No federal limits were exceeded. The NRC was notified.

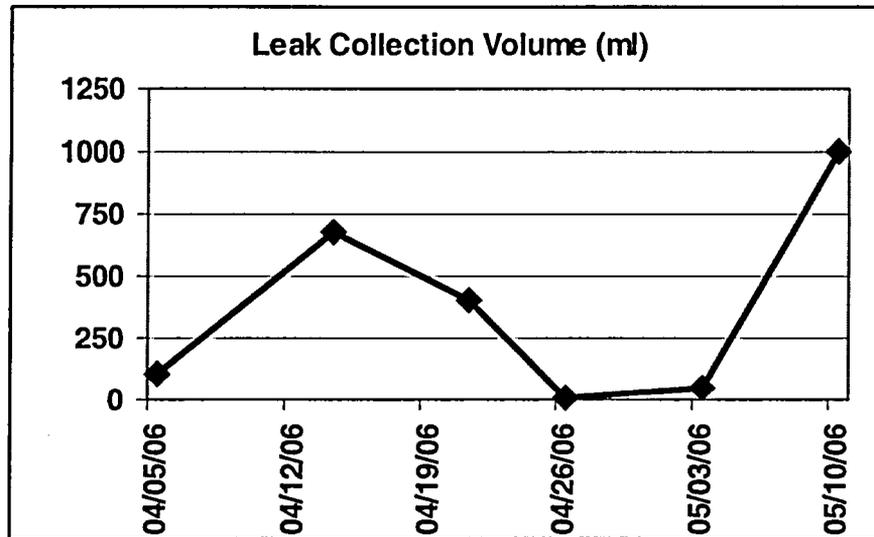
Unit 3 is operating at 100% reactor power and has been on-line for 219 days.

Ground water Investigation Update

Entergy is continuing the investigation into the source of groundwater contamination on site. Since a small leak was discovered last summer, a project team has been investigating the source of the leak, extent of contamination and remediation strategies. Those activities have continued during the Unit 2 outage. A brief summary follows:

IP2 Leak Collection

- Entergy installed a permanent leak collection box of the narrow crack on the southwest wall of the IP2 spent fuel pool. Beginning in early April a small volume of liquid was collected in the box. Prior to that time no water had been seen for several months. The water contains tritium and boron indicative of spent fuel pool water.



Monitoring Wells

- All Phase 1 and 2 wells have been drilled and all wells have been sampled. Split samples have been obtained with the NRC and NYS DEC for independent analysis.
- Well completion activities of packer testing, geophysics testing, surveying, and final packer installation are in progress and scheduled for completion by June 30.
- In Phase 2A, twelve additional wells are planned. These wells are being located to help characterize groundwater around Unit 1. In addition to the new wells, a tracer test will be performed following installation of the wells to determine groundwater flow patterns and transit times. (See map for approximate locations)

Storm and Curtain Drains

- An inspection of storm drains and curtain drains has been completed. In general the Unit 2 and 3 storm drains are functional and intact. Approximately 1/4 to 1/3 of the drain lines are full of silt, gravel and debris. Cleaning and minor repairs are scheduled to begin on June 1.

Leak Identification

- Samples are being taken at Manhole-5 where Unit 2 curtain drains connect to the storm drain system. This location was selected to determine if there is any leakage from the fuel transfer tube. Samples are being taken before, during refueling and after the outage to determine if this is a potential leak path. The first sample taken before the outage had no detectable results. The second sample taken during the refueling showed ~ 2200 pCi/L tritium.

- The Unit 2 spent fuel pool liner inspection will begin on June after the outage. The spent fuel pool floor cleaning assessment will also be performed during the wall inspection as well as checking the interferences on the pool floor. The under pool robot has a vacuum which attaches to the Tri-Nuke filter.

Unit 1 Containment Spray Sump

As part of the on-going groundwater investigation, Entergy has identified a number of tanks, sumps and piping lines onsite that are being examined for radionuclides. One of these structures is the Unit 1 containment spray sump, which is located in the superheater structure adjacent to the Unit 1 turbine building. The containment spray sump is a 30,000 gallon inactive sump that is currently about 1/3 full of water. The lines connecting the sump to Unit 1 have been previously capped and filled with concrete.

Entergy has taken several samples from the water contained in the sump. These samples have been analyzed for radionuclides and environmental contaminants. The table below summarizes the analytical results:

| Date | Sump Location | Cs-137 | H-3 | Ni-63 | Sr-90 | PCB |
|---------|---------------|--------|-------|-------|---------|------|
| 3/22/06 | Bottom | 2,790 | 2,340 | 22.2 | 296 | |
| 4/24/06 | Surface | 2,810 | 1,400 | | Pending | |
| 4/27/06 | | | | | | .242 |

All results in pCi/L except PCB in ppb

Water from the sump is not discharged to the environment. The source of the minute quantity of PCBs is under investigation.

The NRC and New York State DEC were informed about the sample results.

Sediment Spit Samples



On May 10, Entergy, New York DEC and NRC obtained shoreline sediment samples along the Hudson River. The spilt samples replicated the Radiological Environmental Monitoring Program samples that Entergy took about 2 weeks ago. These samples will be counted for Sr-90, tritium and various beta and gamma emitters.

Pictured above are Greg Bowman, NRC, Rich Coville, Entergy, Bill Zolotas, Entergy and Alex Czuhanic, New York DEC.

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.

CONCEPTUAL SKETCH OF IPEC PHASE 1, PHASE 2, AND PHASE 2A MONITORING WELL LOCATIONS

