

**United States Nuclear Regulatory Commission Official Hearing Exhibit**

**In the Matter of:** Entergy Nuclear Operations, Inc.  
(Indian Point Nuclear Generating Units 2 and 3)



**ASLBP #:** 07-858-03-LR-BD01  
**Docket #:** 05000247 | 05000286  
**Exhibit #:** RIV000073-00-BD01  
**Admitted:** 10/15/2012  
**Rejected:**  
**Other:**

**Identified:** 10/15/2012  
**Withdrawn:**  
**Stricken:**

RIV000073  
Date Submitted: December 22, 2011

**Unit 2 Spent Fuel Pool Leak, Monitoring Wells and Underground Piping  
(3/31/06)**

1. Inspected accessible areas of Unit 2 SFP (Completed 2/23/06)
  - a. Identified 6 indications,
  - b. Vacuum box tested with diver, all sat
  - c. Coated all 6 indications
2. Inspection plan for less accessible areas of Unit 2 SFP
  - a. Area between wall and spent fuel rack 1.5"
    - i. ROV technologies has equipment
    - ii. Issued PO to ROV (completed 3/16/06)
      1. Develop plan
      2. Obtain equipment
      3. Schedule inspection (tentative 6/1/06)
  - b. Area under spent fuel racks
    - i. Inspected from cask load pit (2/24/06)
    - ii. Numerous interferences
    - iii. Substantial debris on floor
      1. ROV evaluated DVD and will recommend plan
      2. Need plan to remove debris
3. Installed stainless steel leak collection box over crack on Unit 2 Spent fuel pool wall
  - a. Box located under floor in FSB for Dry Cask Storage modification (Completed 1/27/06)
  - b. Drain routed to PAB
  - c. Sampled periodically by Chemistry (first sample ~ 200ml, none since)
  - d. ODMI closed
  - e. Changed sample frequency to every other week 3/8/06.
4. Unit 3 Spent Fuel Pool tell-tale drain system
  - a. Inspected and no blockage identified (OE Salem) WO
5. Monitoring Wells Phase 1 to determine underground water transport from Unit 2 pool leak
  - a. 9 wells drilled, ~600 feet total depth, need to finish (2/24/06)
  - b. Identified tritium plume in Unit 2 Transformer yard (Mw-111, 33, 34, & 35)
  - c. Identified tritium travels under discharge canal (MW-36 & 37)
  - d. NYS identified SR-90 in existing well in Transformer Yard (part of 3-way split sample) (Sampling problem reported 3/16/06)
  - e. Perform Tracer test from MW-30 (in FSB) Scheduled after completion of well installation
  - f. Complete development of wells
  - g. Develop long Term Monitoring Plan
  - h. Complete report of Phase 1
6. Monitoring Wells Phase 2 to determine IPEC site underground water transport
  - a. 14 wells drilling complete ~1300 feet total depth (3/28/06)
  - b. Well placement near potential sources
  - c. Well placement at site boundaries
  - d. Complete development of wells
  - e. Complete Phase 2 Report,
    - i. Develop remediation or ground water control program
    - ii. Determine need for additional well (Phase 3)

7. Stilling well installation (4) Complete 3/23/06
  - a. Added transducers, collecting tidal data
  - b. Remove in 6 months per Temp Alt (Oct 2006)
8. Under ground piping
  - a. Items identified during KT
  - b. Inspections planned (dates thru 9/06)
9. Storm drain and curtain drain inspections
  - a. Identified tritium in Unit 2 transformer yard storm drains, expanded scope to inspect all storm drains
    - i. Inspection of storm drains completed 3/24/06
  - b. Identified tritium in Unit 3 transformer yard storm drains
  - c. Inspected Storm drains (complete 3/15/06)
    - i. Appear to be functional
    - ii. Contain debris (rocks, gravel and silt)
    - iii. Some drawing discrepancies
    - iv. Develop site drawing
    - v. Develop plan for cleaning (work to start after outage)
      1. Plan to handle debris (work w/ Unit 1 Project)
  - d. Inspected building curtain drains
    - i. IP1 inspection complete (north and South curtain drain)
    - ii. IP2 inspection complete, identified high flow from curtain drain
    - iii. IP3 inspection pipe appears dry
10. NRC contact
  - a. Tuesday and Thursday conference calls
  - b. Special inspection team exit 2/28/06, report issued 3/17/06.
  - c. Meet with Resident every other Friday
11. Public Meetings
  - a. March 28 NRC Public Meeting
  - b. Bi-weekly Telecom Thursday afternoons