

(PA-PA) (PA-PA) (PA-LR)

**From:** Robert Schaaf  
**To:** Douglas Ellis  
**Date:** 4/25/2006 2:33:53 PM  
**Subject:** Re: Teleconference, Needed Information, and Updated Environmental Audit Schedule

Doug,

Answers to several of your information requests are provided below following the associated questions. An additional list of information requests related to ecological issues is also attached. We're looking into the rest of the questions, along with your question on clarifying what information is needed regarding reactor and waste systems. Expect questions on SAMA by around the second week of May.

I will be out of the office early this afternoon. I will be in office early tomorrow. Will talk to you at 10:00 on teleconference if we don't connect earlier.

Bob Schaaf  
NRC Environmental Project Manager

>>> "Ellis, Douglas" <dellis1@entergy.com> 04/24/06 2:26 PM >>>  
Bob - Pilgrim has rescheduled the teleconference, from today Monday 4/24 to Wednesday 4/26 at 10:00 am.

The additional information needed from the NRC/ET Team on or by Wednesday 4/26 is as follows:

\* Identify the need or not for a camera during the onsite visit. Pilgrim can provide a camera; Entergy approval will be required before the removal of any picture (or copy) taken during the tour that will not remain at Pilgrim at the end of the audit visit. I suggest a minimum of picture taking while onsite, and limited only to those considered absolutely necessary.

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John, Alicia, and I discussed this and our preference is to point out picture needs to someone on your staff to allow you to clear any pictures through your process. I would imagine we will keep this to a minimum, if any. Are there any similar issues with regard to taking photos along the transmission corridor?

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\* The names of personnel from U.S. EPA, Mass. DEP, and any other agency(s) who will be coming to Pilgrim for the audit. In addition to the names, Pilgrim also needs the same type of information for each person as the information already provided for NRC/ET personnel.

####

Hope to have this by the 10:00 call tomorrow.

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\* The names of the people who will be going on the boat tour. The maximum allowable is 8, including Entergy people (1-2). This list, including names and other information must and will be provided to the Plymouth Harbor Master, U.S. Coast Guard, and Mass. State Police to meet U.S. Homeland Security requirements. Thus, any last minute addition of

a person(s) to the tour will not be possible. I suggest the number be limited to only those that require going on the tour.

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Harriet Nash, NRC  
Alicia Mullins, NRC  
Steve Duda, Earth Tech  
Steve Dillard, Earth Tech

May add 1-2 from NMFS/MDMF tomorrow.

####

\* For the personnel (NRC, ET, and all other agencies) who will be coming to Pilgrim, Pilgrim needs to know which of the personnel will be coming to Pilgrim and going onsite (within the protected area) for the general plant tour (exterior of process buildings); these personnel will be escorted while onsite.

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Plan on all staff entering protected area for general tour.

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\* For the personnel (NRC, ET, and all other agencies) who will be going onsite, Pilgrim needs to know which of the personnel who will be going onsite for a tour that includes the interior of process buildings that contain radiologically controlled areas (e.g. radwaste building). These personnel will be escorted while onsite, and will have to read and information packets to be able to go on this tour; expect 30 -40 minutes (each person) to complete the read and sign information packets. Also, these personnel will be assigned dosimetry for the tour. An exit whole body count may be required after the tour but before leaving the site at the end of the audit.

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Richard Emch, NRC  
Charles Flynn, Earth Tech  
Mark Spera, Earth Tech

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\* Unless otherwise identified by you (Bob Schaaf, Project Manager), all other personnel who will not need to go onsite will be allowed only within the owner controlled area (outside the protected area).

Thank you, Doug Ellis, Pilgrim Licensing.

**CC:** Alicia Mullins; Alicia Williamson; john.szeligowski@earthtech.com

**Mail Envelope Properties** (444E6B91.B69 : 19 : 35564)

**Subject:** Re: Teleconference, Needed Information, and Updated Environmental Audit Schedule  
**Creation Date** 4/25/2006 2:33:53 PM  
**From:** Robert Schaaf  
**Created By:** RGS@nrc.gov

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MESSAGE	7781	4/25/2006 2:33:53 PM
Issues Questions on Ecological Matters 042506.doc	37888	4/25/2006 2:02:50 PM

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**Information Requests**  
**Pilgrim Nuclear Power Station**  
**April 25, 2006**

Applicants Environmental Report

1. Where exactly are the submarine ledges that are discussed on pg 2-2?
2. Why did the harvest of irish moss stop in the 1990s? What were the long-term trends? (pg 2-2)
3. Several incidences of gas bubble disease and it's effects on menhaden populations are discussed on pg 2-6. Is there a difference in the discharge between the time period of 1973-1976 and now? Does PNPS have any idea as to what caused the gas bubble disease? What monitoring programs are in place to evaluate recurrences in the discharge canal?
4. Where is the priority habitat area for the spotted turtle on the PNPS site? (pg 2-9)
5. Please indicate on a site map exactly where the screen wash is discharged to the intake embayment (pg 3-2). Why is the screen wash discharged to the discharge canal during storms? (pg 3-2). What level of storm (precipitation in inches/hr or some other metric) is the trigger for altering the screen wash discharge? Is this an automatic or manual process?
6. On pg 3-2, it is stated that molluscicides are not permitted without prior approval of EPA and MA. Is anything used besides chlorine? If so, what is the trigger for initiating the approval process? How does the approval process work? Please provide any records of usage.
7. On pg 4-10, it is stated that if fish are being impinged at a rate > 20 fish/hr, the traveling screens are operated continuously until the rate drops to below 20. How is this impingement rate determined? Manually or automatic?

Marine Ecology Studies – Report #65 (4/30/05)

1. On pg 3 of the Winter Flounder Area-Swept Estimate for Western Cape Cod Bay 2004, it is stated that estimates of winter flounder abundance were doubled to account for trawl efficiency. Do the MA DMF winter flounder abundance estimates also make this assumption?
2. Please provide the NEFSC 2003 reference cited in the first paragraph on pg 5 in the Winter Flounder Area-Swept Estimate for Western Cape Cod Bay 2004. This reference is not included in the literature cited.

316b Demonstration Report (March, 2000)

1. On pg 3-6, it is stated that a new screen wash sluicing system was installed in 1979. Why was this installed? Please provide details on the old system and the system that was installed.

General Information

1. Have there been any recent plankton studies performed in the areas near PNPS?
2. Please provide additional information on NSTAR's:
  - corridor vegetation maintenance program including procedures, lists of

- herbicides, pesticides used, etc.
- procedures for working near wetlands and waters of the US
  - procedures for when state and federally listed species are identified
  - any other relevant information regarding management and operation of the transmission lines
3. Please provide any EPA correspondence related to the March, 2000, 316 demonstration report.
  4. Please have available additional information regarding the process for identification of new and significant information.
  5. Please provide additional details on the long term plans for the release of hatchery-reared fish. Has any correspondence/input been received from MADMF or NMFS regarding the hatchery release program? If so, please provide.
  6. Are any recent thermal plume maps available?
  7. Is PNPS aware of other large intakes (> 50 million gal /day) and thermal discharges in the Western Cape Cod bay area? If so, does PNPS have any data from these facilities?
  8. Are there any commercially or recreationally harvested shellfish beds in the vicinity of PNPS?
  9. Is the applicant aware of any water, sediment or biota chemical monitoring data collected in the vicinity of the plant?
  10. Please provide additional details on the intake structure including:
    - What is the intake velocity through the traveling screens?
    - What is the spray wash pressure on the screens?
    - How long is the sluice that carries the wash from the screens to the discharge point in the intake embayment? What is the travel time in this sluice? Is it covered to prevent predation?
  11. Please provide additional details/schematics of the discharge location, specifically the discharge ports/jets.
  12. Please provide additional details regarding the on-site sewage treatment system and leach field. Specifically performance monitoring and capacity information.

#### Reports/Data Requested for Review

- DeGraaf, R.M. and D.D. Rudis, New England Wildlife: Habitat, Natural History, and Distribution, General Technical Report NE-108, US Department of Agriculture, Forest Service, Northeastern Forest Experiment Station, 1986.
- Entergy Nuclear Generation Company, Forest Management Plan, prepared for Entergy by Benjamin Forestry Services, South Easton, MA, and submitted to MDEM, September 12, 2002.
- PNPS, Updated Final Safety Analysis Report
- Town of Plymouth, Annual Report of the Town of Plymouth, MA for the Year Ending December 31, 2003, Plymouth, MA, 2004. *Also please provide any more recent reports from the town if available.*
- Commonwealth of Massachusetts, Executive Office of Environmental Affairs, Department of Environmental Protection, Southeast Regional Office, Groundwater Discharge Permit, SE #2-389, April 26, 1999.

- Appendix B of Section 3.2 (Entrainment Monitoring) in Marine Ecology Studies PNPS Report # 65. April 30, 2005.
- Collings, et al. 1981. The effects of power generation on some of the living marine resources of the Cape Cod Canal and approaches. Mass. Department of Fisheries, Wildlife, and Recreational Vehicles. Division of Marine Fisheries.
- ENSR and MRI. 2001. Study of winter flounder transport in coastal Cape Cod Bay and entrainment at PNPS. Prepared for Entergy Nuclear Generation Company. Document # 8734-188-300.
- ENSR and MRI. 2003. Study of winter flounder transport in coastal Cape Cod Bay and entrainment at PNPS. Prepared for Entergy Nuclear Generation Company. Document # 8734-737-600.
- EG&G. 1995. PNPS Cooling Water Discharge Bottom Temperature Study. August, 1994. Final report to Boston Edison Company.
- Galya et al. 1997. MWRA Outfall Monitoring Overview Report: 1996. MWRA Environmental Quality Department Technical Report Series 97-8.
- MADMF, 1992. Final report on Irish Moss harvesting along the Plymouth Shoreline and impact assessment of Pilgrim Station on the fishery, 1971-1982. Department of Fisheries, Wildlife and Environmental Law Enforcement, MADMF, December, 1992.
- Is there a later version of: Pava et al., 1997. Massachusetts Lobster Fishery Statistics. MADMF Technical Series 32? If not, please provide this reference.
- Stone and Webster Engineering Corporation. 1975. 316 Demonstration. PNPS-Units 1 and 2. Prepared for Boston Edison Company.
- MRI. 1978. Entrainment investigations and Cape Cod bay ichthyoplankton studies. Volume 2, V.1-44 In Marine Ecology Studies Related to Operation of Pilgrim Station. Final Report. July, 1969-December, 1977. Boston Edison Company.
- Lawton et al. 1992. Final report on Irish Moss harvesting along the Plymouth shoreline and impact assessment of Pilgrim Station on the fishery, 1971-1982. PNPS Marine Environmental Monitoring Program Report Series #5.
- Lawton, et al. 1995. Final Report on the Bottom Trawl Survey (1970-1982) and Impact Assessment of the Thermal Discharge from Pilgrim Station on Groundfish. PNPS Marine Environmental Monitoring Program Report Series – number 7.
- SAIC, 1992. Benthic algal and faunal monitoring at the PNPS In: Marine Ecology Studies related to operation of Pilgrim Station. Semiannual report # 39
- Lawton, et al. 1999. Annual report on assessment and mitigation of impact of the PNPS on finfish populations in western Cape Cod Bay. In: Marine Ecology Studies related to operation of Pilgrim Station. Semiannual report # 53. *(If at all possible, please have available the entire series of Marine Ecology Study Reports)*
- Recent Discharge Monitoring Reports (DMRs) required under the facilities NPDES permit
- NPDES permit

