**From:** "Eschbach, Tara" <tara.eschbach@pnl.gov>
**To:** <cxg3@nrc.gov>
**Date:** 2/18/05 6:29PM
**Subject:** FW: Endangered and Threatened Species at Pilgrim Nuclear Station

Cristina,

Please docket this email correspondence for the Grand Gulf ESP environmental impact statement.

Thank you,
Tara

-----Original Message-----
From: Scheffer, Jacob [mailto:JScheff@entergy.com]
Sent: Monday, February 07, 2005 11:03 AM
To: Bunn, Amoret L
Cc: ZINKE, GEORGE A
Subject: RE: Endangered and Threatened Species at Pilgrim Nuclear Station

Dr. Bunn:

Pilgrim Nuclear Power Station has not had an impingement of entrainment incident involving the turtle or whale species mentioned in your message.

Pilgrim Station has been conducting impingement monitoring since 1973. An examination of the available impingement records indicates that no sea turtles have been impinged at Pilgrim Station since the start of the monitoring program.

Additionally, representatives of the company that performs routine maintenance dives in and around the intake embayment and the end of the discharge canal have said that they have not observed any turtles in the vicinity of the station.

No endangered whale species have been observed in the shallow waters off Pilgrim Station since biological monitoring began in the late 1960s. The only way that Pilgrim could possibly impact these whales would be through impacting their food source (plankton) by entrainment. Recent studies have shown that Pilgrim Station's cooling water withdrawal rate is 0.05% of the exchange rate for Cape Cod Bay. If Cape Cod Bay were a closed system it would take 70 years to pass the entire volume of the bay through the station's cooling water system. The impact of the station's cooling system on the Cape Cod Bay ecosystem is insignificant.

If you have any questions, please feel free to call me at 508-830-8323.

Jay Scheffer

-----Original Message-----
From: Bunn, Amoret L
Sent: Monday, February 07, 2005 8:14 AM
To: 'jscheffer@entergy.com'
Cc: Brandt, Charles A; Eschbach, Tara
Subject: Endangered and Threatened Species at Pilgrim Nuclear Station

Dear Mr. Scheffer,

I am working on the Grand Gulf Early Site Permit DEIS, and Pilgrim Nuclear Station is one of the alternate sites being considered. George Zinke recommended that I contact you about one of our concerns to include further information in the document we are preparing. In correspondence with NOAA Fisheries, they asked NRC to consider the following species: loggerhead turtle (Caretta caretta), Kemp's ridley turtle (Lepidochelys kempii), leatherback turtle (Dermochelys coriacea), North Atlantic right whale (Eubalaena glacialis) and humpback whale (Megaptera novaeangliae). I would like to know if there has ever been an incidence at the Pilgrim Nuclear Station with impingement and/or entrainment of any of these species. If you could please respond, I would like to include your comments in the document. Please feel free to contact me if you have any questions about this request.

Thank you for your assistance,
Amoret

Amoret L. Bunn, Ph.D.
Senior Research Scientist
Pacific Northwest National Laboratory
Ecology Group
(509) 376-6300
FAX (509) 372-3515

CC: <jhw1@nrc.gov>, "Brandt, Charles A" <charles.brandt@pnl.gov>, "Bunn, Amoret L" <Amoret.Bunn@pnl.gov>

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| **From:** | "Eschbach, Tara" <tara.eschbach@pnl.gov> |
| **Created By:** | tara.eschbach@pnl.gov |

**Recipients**

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TWGWPO02.HQGWDO01
JHW1 CC (James Wilson)

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CXG3 (Cristina Guerrero)

pnl.gov
Amoret.Bunn CC (Amoret L Bunn)
charles.brandt CC (Charles A Brandt)

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