

**Duda, Steve**

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**From:** Egan, Joseph [jegan1@entergy.com]  
**Sent:** Friday, May 19, 2006 4:45 PM  
**To:** Harriet Nash; Duda, Steve; Alicia Williamson  
**Cc:** Ellis, Douglas; Scheffer, Jacob  
**Subject:** Information re: Pilgrim LRA  
**Attachments:** MEMP Rept-Series list.doc; PNPS Impg\_ Nov-Dec '05.doc

I trust you all had a good return trip. Thanks for spending time with us yesterday, I felt it was very worthwhile.

I have enclosed 2 documents (WORD files) that you requested:

1. [item 298] List of reports in the series prepared by Mass. Division of Marine Fisheries (Bob Lawton et al.) relating to Pilgrim.

These all have the heading Marine Environmental Monitoring Program (MEMP). I am planning to send report numbers 6,8,9+10 to you.

The others (1,4,5+7) have already been provided.

2. Info on minor Fish impingement incidents in November/December 2005. Entergy is agreeable if you choose to docket this 'table'.

Also, I came across a reference on "Overfishing, Contamination, and Habitat Degradation" you may find interesting ...

[link = <http://massbay.mit.edu/publications/NEFishResources/index.html>].

Please feel free to contact me with any questions, concerns or recommendations.

Thanks,  
Joe

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Mass. Division of Marine Fisheries — Marine Environmental Monitoring Program  
**MEMP Report Series 1 – 10** [nos. 2+3 missing] Prepared by Mass. DMF [R. Lawton et al.]  
Sponsored by Pilgrim Station (Entergy / Boston Edison)

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**MEMP #1**            January 1986  
FINAL REPORT ON DISSOLVED GAS SATURATION IN THE INSHORE  
MARINE WATERS OF CAPE COD BAY AND INCIDENTS OF  
GAS BUBBLE DISEASE AT PILGRIM NUCLEAR POWER STATION, 1973-1985

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MEMP Reports 2+3 missing, subjects unknown.

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**MEMP #4**            June 1990  
FINAL REPORT ON SPAWNING SEA-RUN RAINBOW SMELT (*Osmerus mordax*)  
IN THE JONES RIVER AND IMPACT ASSESSMENT  
OF PILGRIM STATION ON THE POPULATION, 1979-1981

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**MEMP #5**            December 1992  
FINAL REPORT ON IRISH MOSS (*Chondrus crispus*) HARVESTING  
ALONG THE PLYMOUTH SHORELINE AND IMPACT ASSESSMENT  
OF PILGRIM STATION ON THE FISHERY, 1971-1982

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**MEMP #6**            December 1992  
FINAL REPORT ON HAUL-SEINE SURVEY AND IMPACT ASSESSMENT  
OF PILGRIM STATION ON SHORE-ZONE FISHES, 1981-1991

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**MEMP #7**            November 1995  
FINAL REPORT ON BOTTOM TRAWL SURVEY (1970-1982)  
AND IMPACT ASSESSMENT OF THE THERMAL DISCHARGE  
FROM PILGRIM STATION ON GROUND FISH

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**MEMP #8**            December 1999  
FINAL REPORT ON RAINBOW SMELT RESTORATION EFFORTS  
IN THE JONES RIVER, 1994-1999

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**MEMP #9**            January 2000  
FINAL REPORT – STUDIES (1990-1997) AND IMPACT ASSESSMENT  
OF PILGRIM STATION ON CUNNER IN WESTERN CAPE COD BAY

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**MEMP #10**          March 2000  
FINAL REPORT – WINTER FLOUNDER STUDIES (1993-1999)  
IN RELATION TO IMPACT ASSESSMENT OF PILGRIM STATION  
ON THE LOCAL POPULATION

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## FISH IMPINGEMENT — Nov, Dec. 2005

5 Minor Incidents [1] Nov. 2-3 [2] Nov. 12 [3] Nov. 30-Dec. 1 [4] Dec. 10 [5] Dec. 14-15

Incident #1 11/2 – 11/3/05 (16.8 hours) Wed. pm

Estimated Number Impinged = 400, predom. spec. – menhaden (YOY)  
 Total Duration = 17 hours  $\geq$  20/hr, Max. Rate = 28/hr [28, 23, 24, 8]  
 Total No. Species [when rate elev.] = 4 No. Species  $\geq$  20 per hour = 1

10 days later

Incident #2 11/12/05 (9.8 hours) Fri midn.

Estimated Number Impinged = 300, predom. spec. – menhaden (YOY)  
 Total Duration = 10 hours  $\geq$  20/hr, Max. Rate = 29/hr [29, 29, 6]  
 Total No. Species [when rate elev.] = 4 No. Species  $\geq$  20 per hour = 1

18 days later

Incident #3 11/30 – 12/1/05 (10.9 hours) Wed. pm

Estimated Number Impinged = 300, predom. spec. – blueback herring (YOY)  
 Total Duration = 11 hours  $\geq$  20/hr, Max. Rate = 40/hr [40, 10, 20, 12]  
 Total No. Species [when rate elev.] = 9 No. Species  $\geq$  20 per hour = 1

10 days later

Incident #4 12/10/05 (5.2 hours) Fri midn.

Estimated Number Impinged = 110, predom. spec. – cunner, str. killifish  
 Total Duration = 5 hours  $\geq$  20/hr, Max. Rate = 21.3/hr [21, 5]  
 Total No. Species [when rate elev.] = 8 No. Species  $\geq$  20 per hour = 0

4 days later

Incident #5 12/14 – 12/15/05 (15 hours) Wed. pm

Estimated Number Impinged = 500, predom. spec. – Atl. silverside  
 Total Duration = 15 hours  $\geq$  20/hr, Max. Rate = 37/hr [37, 32, 5]  
 Total No. Species [when rate elev.] = 9 No. Species  $\geq$  20 per hour = 1