



Meeting Notice

Town of Duxbury, Massachusetts

Pursuant to MGL Chapter 30A, §18-25
All meeting notices and agenda must be filed and time stamped
in the Town Clerk's Office and posted at least 48 hours prior to
the meeting (excluding Saturdays, Sundays and Holidays)

TOWN CLERK'S STAMP

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4/12/2023, 8:38:51 AM

DUXBURY, MA

Board/Committee: Duxbury Nuclear Advisory Committee

Meeting Location: Remote ZOOM meeting

Day & Date of Meeting: Tuesday, April 25, 2023 Time: 7:30 PM

Posted by: Mary Lampert

Pursuant to Chapter 2 of the Acts of 2023, this meeting will be conducted via remote means in accordance with applicable law.

Zoom Video Link:

<https://us02web.zoom.us/j/85974716931?pwd=eVY5ckNOcVNwaUNKN2NQTMjmaDIMUT09>

Meeting Phone Link: +1 929 436 2866

Meeting ID: 859 7471 6931

Passcode: 176675

Members: Mary Lampert, Becky Chin, Jim Lampert, Nancy Landgren, Patrick Gagnon, Megan Driscoll Greenstein, Marie Hoy Liaisons: Cynthia Ladd Fiorini, DEMA

AGENDA

1. Remote Meeting Preamble
2. **Review of NDCAP Meeting** -March 27, 2023 For those who did not attend:
<https://www.mass.gov/info-details/nuclear-decommissioning-citizens-advisory-panel-meetings#2023>- <https://www.youtube.com/watch?v=9OYE6IU685o&list=PL3Z9Hm-6M4Gc14D-OOPAJGmDiJ2WVySf9&index=1>
3. **Pilgrim's Wastewater Disposal Issue**- Holtec filings to modify state and EPA discharge permits-note same filing for both -but state does not distinguish between pollutants rad/ chemical whereas EPA just looks at chemicals - **DEP review procedure** – DEP says Pilgrim is Tier 2 -
<https://www.mass.gov/doc/antidegradation-implementation-procedures-0/download>
IMPLEMENTATION PROCEDURES FOR THE ANTIDEGRADATION PROVISIONS OF THE MASSACHUSETTS SURFACE WATER QUALITY STANDARDS, 314 CMR 4.00 Effective date: 10/21/2009

Modification filing <https://www3.epa.gov/region1/npdes/pilgrim/permit-modification-application-from-holtec-march-31-2023.pdf> read so we can compare notes and discuss- likely first 20 pages is what you would be interested

The listings of matters are those reasonably anticipated by the chair which may be discussed at the meeting. Not all items listed may in fact be discussed and other items not listed may also be brought up for discussion to the extent permitted by law.

4. Economic Report – please read Pilgrim’s report <https://www.mass.gov/doc/holtecs-annual-decommissioning-fund-report-to-the-nrc/download>

Comparison of Holtec financial predictions

	PSDAR 2018	3/31/2022 Report	3/31/2023 Report
DTF Balance as of start of year	\$1,030 B	\$825M	\$518M
Estimated balance at end of 2063	\$3.615	\$252	\$44M
Spent during previous year	---	\$221M (as spent dollars)	\$99M (as spent dollars)
Estimated Cost to Complete Decom.	\$1,135M	\$661M (2021 Dollars)	\$586M (2022 Dollars)
Avg. Annual Spent Fuel Mgt Cost	~\$7.2M (Total \$401M)	\$8 million (Total \$342)	\$8 million (Total \$328)
Previous Inflation	0	1.02	1.04
Future Inflation	0	0	0

Notes:

1. Value of DTF dropped \$307M during 2022. Since it depends on market conditions, it is highly variable.
2. Only \$99M spent during 2022. Apparent drop in investment value due to market losses in 2022 was \$208M (approx. 25%)
3. Neither PSDAR nor any reports provide for future inflation. Reports indicate annual inflation of 2%-4%
4. If my calculations are correct:
 - a. Future License Termination costs
 - i. Estimated, \$275M, largely between now and end of 2031 . Variable year-to-year.
 - ii. 2% annual inflation for 8 years would result in about \$30M in additional costs; 4% would result in about \$87M.
 - iii. 2% results in additional costs equal to about 2/3 of Holtec’s 3/31/2023 estimate of estimated 2063 balance: 4% results in additional costs of about twice the estimated 2063 balance.
 - b. Spent Fuel Management costs – until end of 2031. Why 2031-no offsite interim or permanent repository)
 - i. Estimated about \$82M
 - ii. 2% inflation from 2023 until end of 2031 (8 years) would result in about \$14 in additional costs; 4% would result in about \$27M
 - c. Spent Fuel Management costs from 2023 until 2063.
 - i. Estimated, \$328M between now and end of 2063 – estimated about \$8.2M each year.
 - ii. 2% inflation until end of 2063 (40 years) would result in about \$397 in additional costs; 4% would result in about \$1,246M.
 - d. Again, assuming my estimates are correct, whether there is or will be enough money in the DTF seems to depend on: Stock market growth or decline; inflation; unexpected costs, timing and amount of recovery from DOE. (Note: No recovery from DOE until Holtec spends the money asked to recover-usually files every 5 years.)

Based on Holtec’s 3/31/23 report, the strong likelihood seems to be that there is not enough.

5. Legislation HD.256, HD 3705 and others-Monitoring Dry Casks, Water Discharge Commission’ NDCAP
6. Review Presentation Selectboard and/or town at Sr. Ctr April 24-follow up.
7. Minutes-vote to approve previous minutes.
8. Other