

Document Log Item			Release
Addressing			
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Description			Form Used: Memo
Subject		Date/Time	
Material for Merrimack Station Congressional Brief		08/23/2011 03:28 PM	
# of Attachments	Total Bytes	NPM	Contributor
1	266,517		David Webster
Processing			
Comments			
<input type="text"/> Clear Category <input type="text"/> Non-responsive			
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Body

Document Body

For your information is material that will be used during the Merrimack Station Conference Call Briefing for Friday, August 26 from 2 pm to 3:30 pm. I also included the phone number information. Thanks. See attachment and Information below.



Congressional Brief.pptx

Information reminder from my earlier e-mail confirming the date, time, call in number, password, and dial in instructions. Thanks.

Sarah, Simon, Sean, Chris, After hearing from all of you, I have reserved a conference line for Friday, August 26 from 2 pm to 3:30 pm. This was a time and date that worked for each of you and our EPA staff. The call in number is 617/918-2821 and the password is 141393.

See call in information below. Thanks.

For Your Information, an audio conference bridge has been reserved:

with a start date and time of 08/26/2011 02:00 PM

and a ending date and time of 08/26/2011 03:30 PM

Dial-In Number: (617) 918-2821

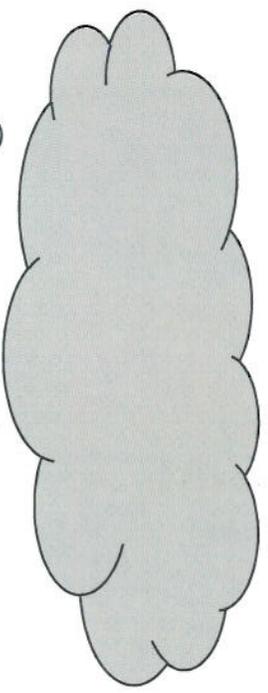
Password: 141393

* Instruction

1. At the specified time, dial your Dial-In Number.
The conference bridge will answer with
"Hello, Welcome to the USEPA Region 1 audio conference bridge.
The use of this bridge is for official EPA business only.
Please enter your assigned Password now. "
 2. Enter your Password followed by #.
The conference bridge will respond with either
"Welcome to your conference. You are the first party to join." or
"Welcome. Your conference is in progress, please announce yourself."
 3. If prompt, announce yourself followed by #.
-

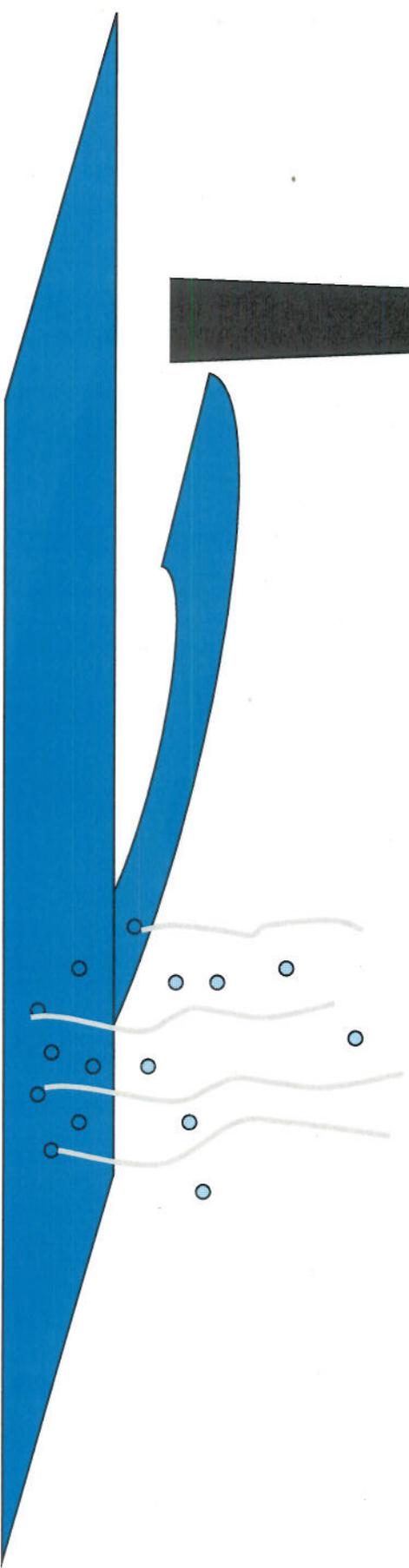
Abot 8/26/2011

487



MERRIMACK STATION

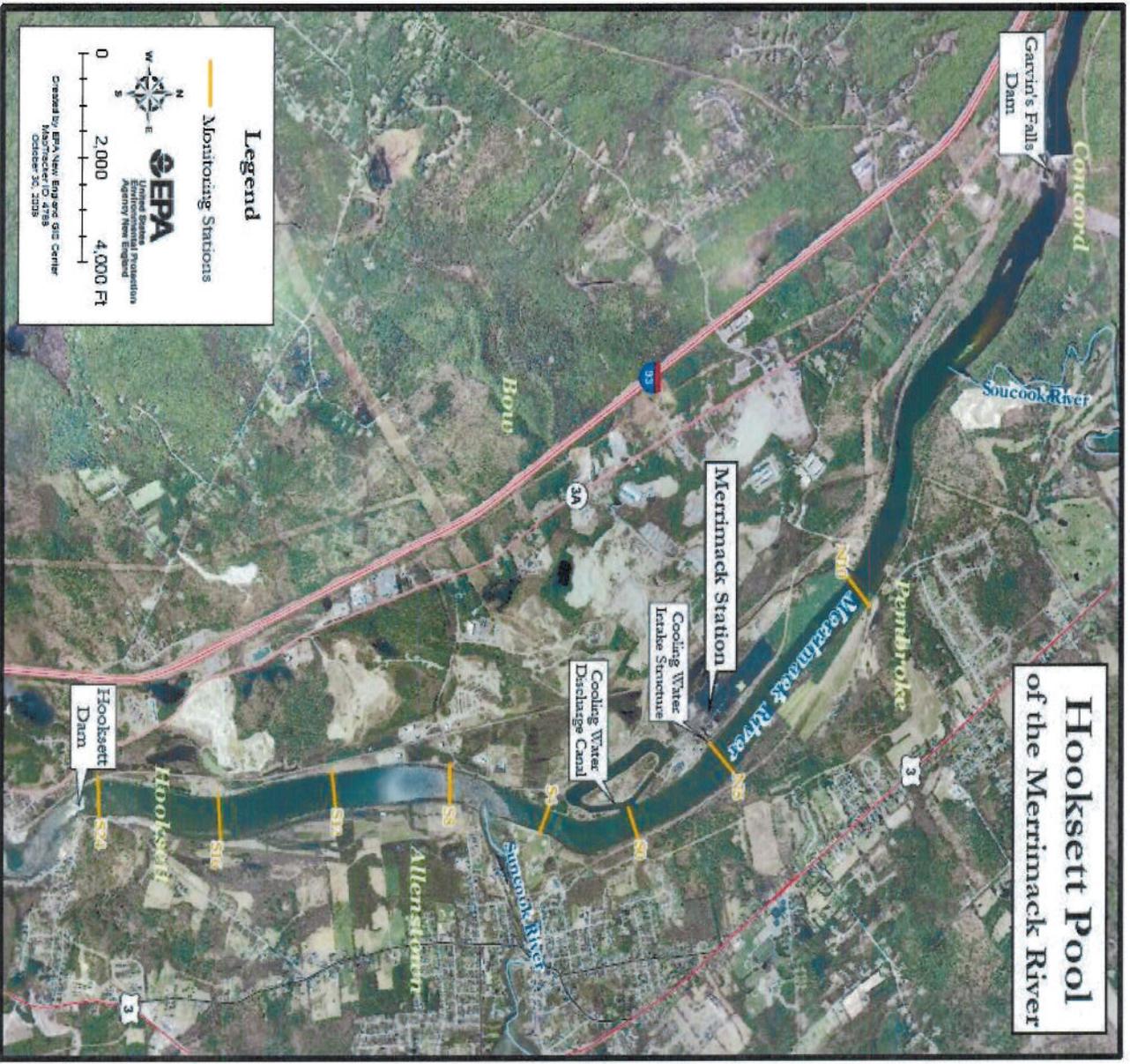
LOCATION: Bow, New Hampshire
RECEIVING WATER: Merrimack River
CAPACITY: 487 MW – Base-Line Plant



State of New Hampshire



Hooksett Pool of the Merrimack River



Legend

Monitoring Stations

0 2,000 4,000 Ft

Created by EPA New England GIS Center
October 30, 2008

EPA
Environmental Protection Agency
New England

Merrimack Station Draft Permit

Environmental Significance

- Merrimack Station's thermal discharge and intake *has* caused, or contributed to, appreciable harm to Hooksett Pool's BIP.
 - The Hooksett Pool fish community has shifted from a mix of warm and coolwater species to a community now dominated by thermally-tolerant species;
 - The abundance for all species combined that comprised the BIP in the 1960's has declined by 94 percent, and
 - The abundance of some thermally-sensitive resident species, such as yellow perch, has significantly declined.
- Impacts of airborne mercury and other metals now may shift to water

Merrimack Station Draft Permit

National Significance

- Flue Gas Desulfurization Wastewater System (FGD WWTs) BPL developed effluent limits will influence national ELGs.
- 316(b) – Draft permit limits are consistent with current BPL BAT practices and with draft Existing Facilities Rule.
- Electrical generating coal-free fuel campaigns.

Merrimack Station Draft Permit

Significant Effluent Limits

Parameter	Existing Permit Limits	Draft Permit Limits
Thermal Discharge	10°F ΔT trigger (Attempt to maintain)	BTU (Monthly)
Impingement/ Entrainment	None	Install fish return system & Closed Cycle Cooling
Iron	Tech	Tech*
Copper	Tech	Tech*/WQ*
Mercury	None	Tech*/WQ*
Arsenic	None	Tech*/WQ*
Selenium	None	Tech*/WQ*
Aluminum	None	WQ*
Metals (Additional)	None	Tech*/WQ*

*FGD WWTS

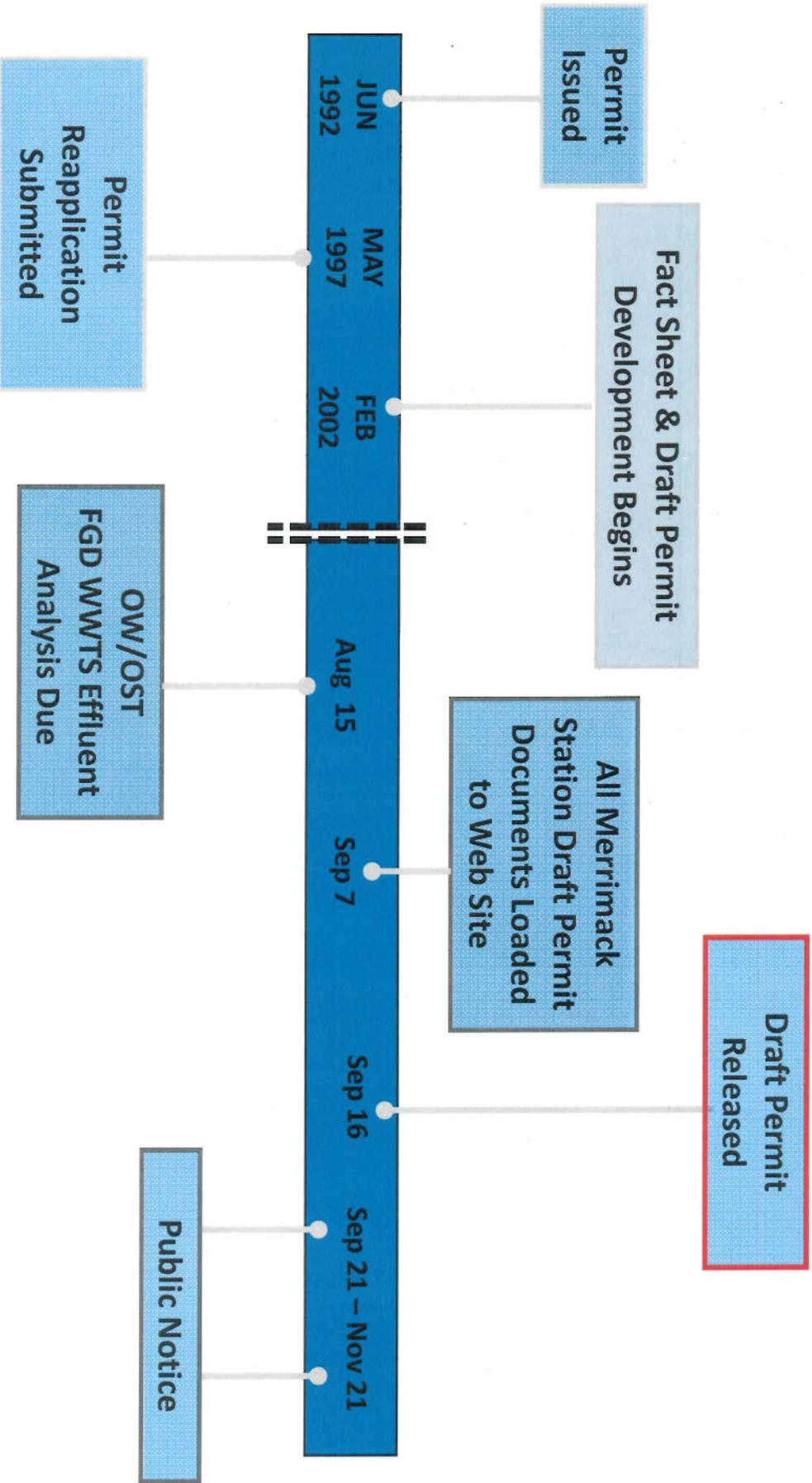
Closed Cycle Cooling Costs Compared to Environmental Savings

(Year Round Operation)

Eggs & Larvae Saved Over Entrainment Baseline (Millions)	Fish Save Over Impingement Baseline (Thousands)	Net Present Value of Capital & O&M Cost (millions)	Annualized Cost (\$M)
3.62	4.77	\$98.7	\$10.10

- Over 95% reduction in thermal discharge
- PSNH has found mechanical draft towers to be technologically and economically feasible
- Cost is significant, but affordable to PSNH and its customers

Merrimack Station Draft Permit Public Notice Time Line (not to scale)



Stakeholder Communications

- State of New Hampshire
- PSNH
- EPA Headquarters
- CLF
- Communication/Public Notice Strategy