

DEP is Giving Salem a Sweetheart Deal

The plant's permit expired in 2006, yet DEP is extending the permit instead of requiring Salem to implement the best available technology to address fish kills and water pollution under the Clean Water Act.

There IS an AFFORDABLE Solution!

Cooling towers are standard equipment on modern power plants. They reduce the amount of water taken into the plant, and cool the remaining water that comes out of it, which results in reduced fish kills and a healthier and more diverse river ecosystem.

Using environmental benefit information gathered by the EPA, the net environmental benefits from modernizing cooling systems at older power plants like Mercer are estimated to be at least \$5 to \$7 billion annually. A noted environmental economist conclude d the amount could be as high as \$18 billion per year.

TAKE ACTION NOW

Call Gov. Christie & DEP Commissioner Martin & urge them to STOP the Delaware River Fish Kills at Salem. Ask for a new NJPDES permit that requires an immediate upgrade to a closed-cycle cooling system!

Gov. Christie: 609-292-6000

Commissioner Martin: 609-292-2885

**PSE&G SALEM NUCLEAR
POWER PLANT:**



www.usainc.org

STOP

**the DELAWARE
RIVER FISH KILLS!**

**3 billion organisms killed each year ,
including 5 threatened and
endangered species**



Delaware Estuary Impacted by Nuclear Plant

The Salem Nuclear Plant in Lower Alloway Creek, NJ draws water from the Delaware River to cool equipment.

Salem extracts **OVER 3 BILLION** gallons of water a day from the Delaware



<http://www.flickr.com/photos/if/1238493520/>

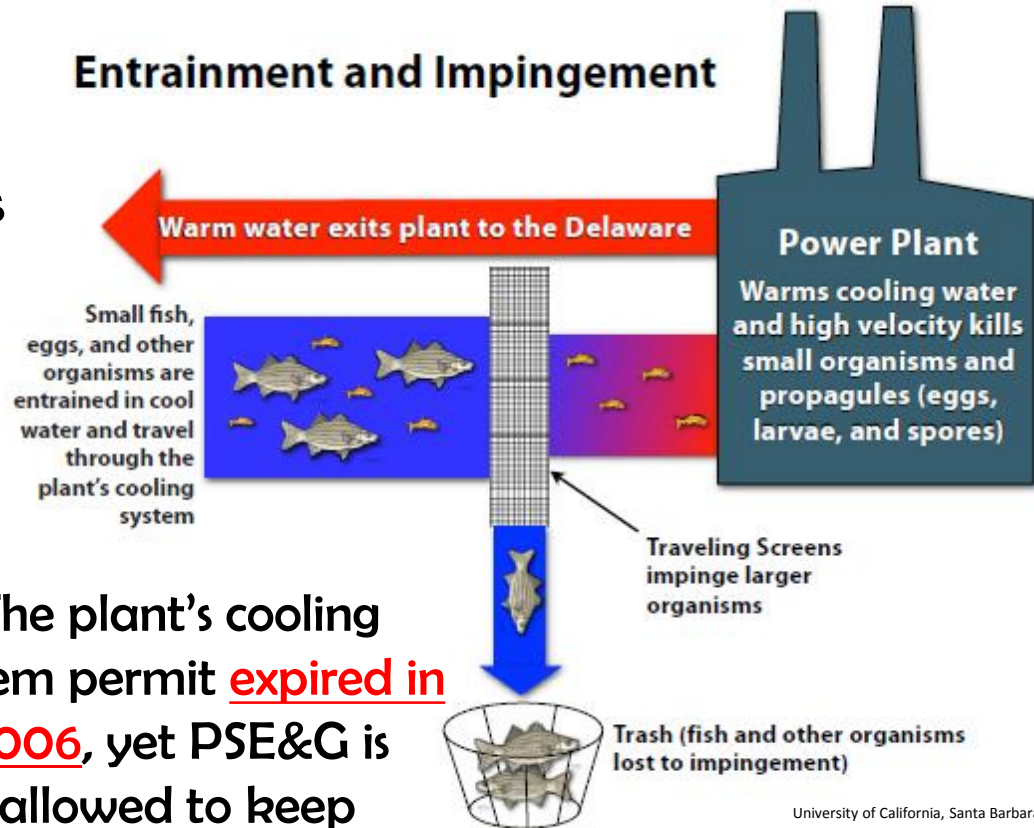
800 Million Fish Killed Annually

Four times as many bay anchovy and weakfish are killed at Salem than are commercially caught in the Estuary. The plant impacts 5 threatened and endangered species including sea turtles and sturgeons.

Thermal Water Discharges Pollute Ecosystem

The EPA finds that super heated water discharged in the Delaware River by the Salem plant harms the structure and function of aquatic ecosystems making it difficult for many species to survive.

Entrainment and Impingement



The plant's cooling system permit **expired in 2006**, yet PSE&G is allowed to keep operating with outdated technology that kills fish

Impingement and Entrainment

Entrainment occurs when organisms are drawn through a cooling water intake structure into the facility's cooling system. These small and young fish and eggs are cooked by the water as it is heated by the plant.

Impingement occurs when organisms are trapped against screening devices by the force of the water passing through the cooling water intake structure. Impingement can result in starvation, exhaustion, asphyxiation, descaling, and death.

