



Barneгат Bay/ Ocean County Domestic Treatment Plant Regionalization

No. of Plants Total Avg Flow (MGD)

December 1971 (to the bay)

Public/Private STPs ¹	31	6.5
<i>(Regionalization ~1980)</i>		

Present

Ocean County UA ²	3	52.1
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¹Genetelli, E.J., 1973, Environmental Assessment Report on the Proposed Facilities of the Ocean County Sewage Authority, Volume I. EAC, New Brunswick, N.J.

²Direct discharges to Atlantic Ocean (2007 data)

NJPDES Permit

Oyster Creek Nuclear GS

- Authorizes the intake and discharge of:
 - 662.4 million gallons per day (MGD) of non-contact cooling water
 - 732 MGD of dilution water
 - Small amounts of process wastewater, intake screen wash water and stormwater.
- NJPDES permit **DOES NOT** regulate power generation and nuclear operations (including tritium leaks).

Draft Permit Section 316(b) Determination

Determined that closed-cycle cooling (i.e. cooling towers) constitutes best technology available in accordance with best professional judgment. This determination is based on:

- 1) Documented significant impingement and entrainment losses. Closed-cycle cooling will significantly reduce water intake usage decreasing impingement and entrainment effects.
- 2) Closed-cycle cooling is one of the few technologies available to target entrainment effects.
- 3) Based on its review of the report entitled “Determination of Cooling Tower Availability”, the Department does not agree that the permittee has substantiated that cooling towers are “unavailable”.
- 4) The permittee received a 20 year renewal of its federal operating license; therefore, cooling towers can be amortized over a longer time frame which contributes to cost-effectiveness.

Status of NJPDES Permit

- Draft permit issued January 7, 2010.
- Public hearings held on February 24, 2010 and March 3, 2010.
- Public comment period closed on March 15, 2010.
- Total commenters include 1873 written or verbal commenters and 5153 petition signers.
- The Department is currently reviewing, analyzing, summarizing and preparing responses to comments.