

# Preparation of §316(b), §122.21(r)(2), (3), (5), and (8) for NRG's Chalk Point Generating Station



## Project Summary

ALDEN was contracted by NRG to develop §122.21(r)(2), (3), (5), and (8) reports relative to the classification of the source waterbody, existing cooling water intake structure, existing cooling water intake structure, existing cooling water system, and operational status of their Chalk Point generating station (Chalk Point). The data presented in these reports will be used by regulators while evaluating Chalk Point's compliance with Section 316 (b) of the Clean Water Act for existing facilities.

## Client

NRG Chalk Point LLC

## Location

Chalk Point Plant  
25100 Chalk Point Road  
Aquasco, MD 20608

## Year

2014—2016

## FOR MORE INFORMATION,

Contact our Headquarters, Holden, MA at +1 (508) 829-6000 or by e-mail at : [info@aldenlab.com](mailto:info@aldenlab.com)

## Project Overview

In compliance with §316(b) of the Clean Water Act for existing facilities, ALDEN is developing §122.21(r)(2), (3), (5), and (8) reports for NRG's Chalk Point Generating Station (Chalk Point) relative to the classification of the source waterbody, existing cooling water intake structure (CWIS), existing cooling system, and operations of Chalk Point. The §122.21(r)(2) Source Water Body Description Data Report provides a comprehensive review of the source waterbody used to assist regulators in determining potential impacts from Chalk Point. The §122.21(r)(3), Cooling Water Intake Structure Data Report reviews the existing CWIS to assist in determining if the intake is in compliance with the §316(b) rule. Data presented in the §122.21(r)(5) Cooling Water System Report will be used to determine what CWIS technologies are or could be applicable. The §122.21(r)(8) Operational Status Report reviews past, present, and planned future plant operations, used to by regulators determine water use trends and public benefit.

## Work Performed

Following a review of existing plant operation and environmental conditions, ALDEN developed a narrative of the source waterbody including general use, population trends, dimensions, depths, flow, salinity, temperatures, and Chalk Point's area influence. ALDEN then detailed the cooling system and CWIS configuration, operations, flows, velocities, and existing aquatic life impingement and entrainment reduction measures. ALDEN also compiled past and present operational data for the plant including other cooling water use and major upgrades. Future operation and upgrade plans were also outlined.

## Project Highlights

- Comprehensive review of affected waterbody, existing plant cooling system, existing CWIS, and plant operations.
- Presentation of required data in the appropriate format for use by regulators while reviewing §316(b) of the Clean Water Act for existing facilities compliance.