

§ 316(b) Cooling Water Intake Structures Consulting Services – § 122.21 (r)(2) through (12)



Summary

Alden has extensive experience completing many of the § 122.21(r) studies required under the §316(b) Rule

Clients

Duke Energy
EMERA Energy
Gulf Power
Hawaiian Electric Company (HECO)
Nebraska Public Power District (NPPD)
NRG Mid-Atlantic
Public Service Company of New Mexico
EPRI
Dynergy
Nippon Dynawave
PBF Energy

Location

Nationwide

Requirement Overview

Facilities needing to comply with §316(b) of the Clean Water Act for existing facilities are required to submit up to 11 studies under § 122.21(r). The number of studies required varies based on facility intake flow.

All facilities that are designed to withdraw greater than 2 million gallons per day (mgd) are required to reduce impingement mortality (IM) and complete the following studies:

- Source Water Physical Data (§ 122.21(r)(2))
- Cooling Water Intake Structure Data (§ 122.21(r)(3))
- Source Water Baseline Biological Characterization Data (§ 122.21(r)(4))
- Cooling Water System Data (§ 122.21(r)(5))
- Chosen Method of Compliance with Impingement Mortality Standards (§122.21(r)(6))
- Operational Status (§ 122.21(r)(8))

Facilities that have an actual intake flow (AIF) greater than 125 mgd are required to submit the following additional studies that provide information on reducing entrainment (E):

- (Entrainment) Performance Studies (§ 122.21(r)(7))
- Entrainment Characterization Study (§ 122.21(r)(9))
- Comprehensive Technical Feasibility and Cost Evaluation Study (§ 122.21(r)(10))
- Benefits Valuation Study (§ 122.21(r)(11))
- Non-Water Quality and Other Environmental Impacts Study (§ 122.21(r)(12))

Alden Expertise

FOR MORE INFORMATION,

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

Alden has over 30 years of experience with the development and implementation of the §316(b) Rule and has worked with a wide range of clients to complete their § 122.21(r) submittal. Alden's expertise covers most of the studies (§ 122.21(r)(2-8,10 and 12)), however we regularly team with other specialized firms to provide our clients with a complete § 122.21(r) submittal.