

316(B) COOLING WATER INTAKE STRUCTURES

2018 ENVIRONMENTAL TRADE FAIR

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TOPICS

- BRIEF OVERVIEW OF RULE
- APPLICABILITY
- EXEMPTIONS, WAIVERS, AND BPJ DETERMINATIONS
- PERMIT APPLICATIONS, REDUCTIONS REQUESTS, AND ALTERNATIVE SUBMITTAL SCHEDULES
- POTENTIAL PERMIT REQUIREMENTS



SECTION 316(B) OF THE CLEAN WATER ACT

- REQUIRES EPA TO ISSUE REGULATIONS ON THE DESIGN AND OPERATION OF INTAKE STRUCTURES, IN ORDER TO MINIMIZE ADVERSE ENVIRONMENTAL IMPACTS.
- GOAL IS TO REDUCE IMPINGEMENT MORTALITY AND ENTRAINMENT OF FISH AND OTHER AQUATIC ORGANISMS AT COOLING WATER INTAKE STRUCTURES (CWIS_s) USED BY CERTAIN POWER GENERATION AND MANUFACTURING FACILITIES IN WITHDRAWALS OF COOLING WATER FROM WATERS OF THE UNITED STATES (WOTUS).



REGULATIONS

- NEW FACILITIES - 40 CFR §§ 125.80-89
- EXISTING FACILITIES - 40 CFR §§ 125.90-99
- APPLICATION REQUIREMENTS- 40 CFR § 122.21(r)



APPLICABILITY

- POINT SOURCE
- COOLING WATER INTAKE STRUCTURE
- DESIGN INTAKE FLOW GREATER THAN 2MGD
- WATERS OF THE UNITED STATES
- GREATER THAN 25% OF ACTUAL INTAKE FLOW USED FOR COOLING PURPOSES



EXEMPTIONS AND WAIVERS

- EXEMPTIONS:
 - PUBLIC WATER SYSTEMS
 - INDEPENDENT SUPPLIERS (CERTAIN CIRCUMSTANCES)
 - REUSE
- WAIVERS:
 - STOCKED AND MANAGED FISHERIES – RENEWED EACH PERMIT ACTION



BPJ DETERMINATIONS

- 40 CFR § 125.90(b)
- POINT SOURCE
- COOLING WATER INTAKE STRUCTURE
- BELOW THRESHOLD FOR APPLICABILITY



PERMIT APPLICATION

- TECHNICAL REPORT ITEM 12
- WORKSHEET 11.0 – COOLING WATER INTAKE INFORMATION
- WORKSHEET 11.1 – COMPLIANCE WITH IMPINGEMENT MORTALITY
STANDARD
- WORKSHEET 11.2 – SOURCE WATER BIOLOGICAL INFORMATION
- WORKSHEET 11.3 – COMPLIANCE WITH ENTRAINMENT MORTALITY



ENTRAINMENT MONITORING REDUCTION REQUESTS

- ENTRAINMENT MONITORING FOR NEW FACILITIES:
 - PHASE I - 40 CFR § 125.86
 - DEMONSTRATE COSTS ASSOCIATED WITH ENTRAINMENT MONITORING ARE WHOLLY OUT OF PROPORTION WITH EPA ESTIMATES.
 - PERCENT OF REVENUE BASIS



ALTERNATIVE SUBMITTAL SCHEDULE FOR APPLICATION REQUIREMENTS

- PERMITS EXPIRING PRIOR TO 7/14/2018
 - SUBMIT REQUEST WITH APPLICATION
- PERMITS EXPIRING AFTER 7/14/2018
 - SUBMIT MINOR AMENDMENT TO INCORPORATE INTO PERMIT
 - MUST BE ISSUED PRIOR TO 7/14/2018



POTENTIAL PERMIT REQUIREMENTS

- GENERAL OPERATION AND MAINTENANCE PROCEDURES
- INTAKE VOLUME CAPS
- INTAKE VELOCITY MONITORING
- BEST ENGINEERING PRACTICES FOR MINIMIZING INTAKE FLOWS
- SITE SPECIFIC REQUIREMENTS FOR ENDANGERED SPECIES



QUESTIONS?

- APPLICATION OR PERMIT REQUIREMENTS

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