

http://www.epa.gov/waterscience/316b/files/1977AEIguid.pdf - Microsoft Internet Explorer

File Edit Go To Favorites Help

Back x Search Favorites

http://www.epa.gov/waterscience/316b/files/1977AEIguid.pdf

Save a Copy Search Select 47% Sign Y19W

Pages Attachments Comments

(DRAFT)  
OPTIMIZATION  
FOR ESTIMATING THE  
ADVERSE IMPACT OF COOLING WATER  
INTAKE STRUCTURES ON THE AQUATIC ENVIRONMENT  
SECTION 316(b) P.L. 92-596

U.S. Environmental Protection Agency  
Office of Water Enforcement  
Enforcement Division  
Industrial Discharge Branch  
Washington, D.C.

May 1, 1977

Revisions: Since we have that this version of the document has been  
corrected from hard copy it is considered such as TSP format.  
Therefore, this document may not match exactly the format of hard  
copy which have been distributed by EPA staff in the past.

1 of 64

Done Unknown Zone

{DRAFT}

GUIDANCE

FOR EVALUATING THE

ADVERSE IMPACT OF COOLING WATER  
INTAKE STRUCTURES ON THE AQUATIC ENVIRONMENT:

SECTION 316(b) P.L. 92-500

U.S. Environmental Protection Agency  
Office of Water Enforcement  
Permits Division  
Industrial Permits Branch  
Washington, D.C.

May 1, 1977

**Disclaimer:** Please note that this version of the document has been converted from hard copy to an electronic file in PDF format. Therefore, this document may not match exactly the format of hard copies which have been distributed by EPA staff in the past.

## TABLE OF CONTENTS

	<u>Page</u>
I. Statement of Problem	1
II. Introduction	4
III. Information Flow Chart	6
IV. Decision Criteria	11
V. Definitions and Concepts	15
VI. Study Format	23
VII. Detailed Study References	25
VIII. Site Description	26
1. Site location and layout	
2. Meteorology	
3. Additional stresses on water body segment	
4. Cooling water intake structure	
IX. Source Water Involvement	29
1. Hydraulic features	
2. Probability of entrainment	
X. Biological Survey Requirements - NEW INTAKES	33
1. Sampling design	
2. Sampling methodology	
3. Follow-up studies	
XI. Monitoring Program - EXISTING INTAKES	39
1. Sampling program - Entrapment-Impingement	
2. Sampling program - Entrainment	
3. Follow-up studies	
XII. Impact Assessment	45
1. Biostatistical analyses	
2. Predictive biological models	
3. Community response parameters	
4. Biological value concept	

TABLE OF CONTENTS continued

	<u>Page</u>
XIII. Acknowledgments	55
XIV. Literature Cited	56

LIST OF FIGURES

<u>No.</u>	<u>Figure</u>	<u>Page</u>
1	316(b) Flow Chart <u>Existing Intakes</u>	7
2	316(b) Flow Chart <u>New Source Intakes</u>	8
3	316(b) Flow Chart <u>New Intakes (Not New Source)</u>	9

LIST OF TABLES

<u>No.</u>	<u>Table</u>	<u>Page</u>
1	Example Data Matrix (Species I) Data Sheet (Spatial Compartment [A])	54