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**Design Water Intake  
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Fish Protection at  
Cooling Water Intake  
Structures: A Technical  
Reference Manual .

1014934 ... concern  
and needs to be  
addressed in the  
design and operation  
this technology. When  
all ... diameter pipes  
that project out from a

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caisson intake structure. They are arranged in line, with the ir long axis paralld to the river flow .  
Through-slot

## **Fish Protection at Cooling Water Intake Structures: A**

...

Design of Water Intake Structures for Fish Protection: Author: American Society of Civil Engineers. Task Committee on Fish-

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Handling Capability of  
Intake Structures:

Publisher: The Society,  
1982:...

**Design of Water  
Intake Structures for  
Fish Protection ...**

In the USA regulatory requirements address water intake structures, air emissions, and discharge of blowdown water. Currently, under Section 316(b) of the Clean Water Act, it has

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been proposed to implement more stringent protection measures at water intake structures to protect fish, shellfish, and other aquatic life (USEPA, 2002a). This proposed regulation could lead to the need for retrofitting of once-through cooling water intakes and ultimately lead to increased use of recirculating systems.

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**Intake Structure - an  
overview |**

**ScienceDirect Topics**

Design and locate the water intake structure so that uniform flow distribution is maintained through the total screen area. Estimate approach velocities for each water intake for a range

**(PDF) FISH  
SCREENING GUIDE  
FOR WATER INTAKES**

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Selecting the water intake structures. 2.

The main elements of a water intake are: a diversion structure, to control the water level in the stream and to ensure it is sufficient to supply the intake but not to flood it (see Sections 7.3 to 7.5); inlet level (and flow) control in the intake structure itself, to control water supply to the ponds (see Section 7.6).

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## **7. Main Water Intake Structures**

It has been noted that fish will avoid rapid changes in horizontal flow and velocity cap intakes have been shown to provide 80-90% reduction in fish impingement at two California power stations, and a 50-62% impingement reduction versus a conventional intake at two New England power stations

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(EPA Efficacy of Cooling  
Water Intake  
Fish Protection  
Structures).

**An Overview of  
Seawater Intake  
Facilities for  
Seawater ...**

intake structures, to  
assess the strengths  
and weaknesses of  
various water  
intake/fish protection  
systems, to summarize  
the extent of our  
under standing of  
biological processes

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rele vant to this problem, and to propose the direction for future research which will lead to the design of better intake struc tures.

## **Entrapment and Impingement of Fishes by Power Plant ...**

The water from the sump-well of the intake to upper portion of the intake as shown in Fig.

7.3. Number of

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penstock openings is provided in the intake tower to admit water at different levels. The opening and closing of penstock valves is done with the help of wheels provided at the pump-house floor.

### **Intakes: Design, Types and Selection | Water Collection ...**

and maintenance of structures for water diversion; water control and measurement; and

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structures for fish protection (fishways, ladders, screens). We will describe the pros and cons of different structure types, their maintenance requirements, relative construction costs, and common failure modes.

### **Planning and layout of Small-Stream diversionS**

Structural Design of a Water Intake Tower in Concrete Afonso

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Geraldes de Frias  
Gomes Instituto

Superior Técnico,  
Lisbon, Portugal

September, 2015 \_\_\_\_\_

Abstract The main objective of water intake structures is the utilization of superficial water resources from natural waterlines.

**Structural Design of  
a Water Intake  
Tower in Concrete**

Water levels and  
associated currents

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govern the hydraulic design of the intake and outfall as well as the dispersion and transport of the effluent plumes. 2.3.3 Waves. Waves are an important environmental parameter required for the design and construction of structures in the marine environment. 2.3.4 Currents. Initial and secondary dilutions

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**Seawater Intake &  
Brine Outfall  
Systems - EPCM  
Holdings**

Design of water intake  
structures for fish  
protection. New York,  
N.Y. : The Society,  
©1982

(OCoLC)565949256:

Document Type: Book:  
All Authors /

Contributors: American  
Society of Civil  
Engineers. Task  
Committee on Fish-

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Handling Capability of  
Intake Structures.

ISBN: 0872622916

9780872622913: OCLC

Number: 8362156:

Description: 163 pages  
: illustrations ; 22 cm

**Design of water  
intake structures for  
fish protection ...**

The seawater intake  
structures are used,  
above all, in  
desalination plants,  
fish farms and  
refrigeration circuits for

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industries and combined cycle gas turbine (CCGT) power stations. The function of these structures is to collect water of specific characteristics for the required

## **SEAWATER INTAKE STRUCTURES - INCREA**

Abstract. Sponsored by the Energy Division of ASCE. Guidelines for Design of Intakes for Hydroelectric Plants

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examines the hydraulic and structural considerations applicable to the sound environmental design of hydropower intakes. The designer of a hydroelectric facility must consider the protection and preservation of fish, wildlife, recreational opportunities, and environmental quality, while at the same time ensuring that the plant operates at maximum

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efficiency.

**Guidelines for  
Design of Intakes for  
Hydroelectric Plants**

...

We would like to show  
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but the site won't allow  
us.

**The Constructor -  
The Construction  
Encyclopedia**

intake. The suggested  
screen design uses  
stainless steel screen

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panels installed in concrete structures at a slope of approximately 1 to 1.5 (vertical to horizontal). To protect listed and endangered fish species, screens have a maximum allowable spacing of 1.75 millimeters,

### **SECTION 3 Intake Site Selection and Design Alternatives**

Details about Design of water intake structures

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for fish protection. by  
Task Force - American  
Society of Civil  
Engineers | Be the first  
to write a review.  
Design of water intake  
structures for fish  
protection. Item  
Information. Condition:  
Good

## **Design of water intake structures for fish protection ...**

A fish screen is  
designed to prevent  
fish from swimming or

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being drawn into an aqueduct, cooling water intake, intake tower, dam or other diversion on a river, lake or waterway where water is taken for human use. They are intended to supply debris-free water without harming aquatic life.

## **Fish screen - Wikipedia**

The use of velocity caps on offshore

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cooling water intake structures have been in practice since the late 1950s to reduce the impingement of fish. Unfortunately, no site-specific data exists for New York facilities that verify the efficacy of intakes fitted with velocity caps meet the performance goals of Commissioner Policy CP-52 for impingement mortality.

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