Regional Categorical Permission Alteration Description – 13. Fish Screens

The Regional Categorical Permission covers fish screens, including cones, cylinders, drums, plates, and other designs, proposed for installation, modification, or replacement on water intake pipes. Associated facilities, such as maintenance structures, supports, and walkways, may be installed, modified, or replaced as well. The area of construction for fish screen support facilities must not exceed 5 acres.

When possible, fish screens should be positioned in the floodway to create a sweeping, eddy-free flow capable of moving fish and debris along and past the facility under all flow conditions.

Screens should be durable so that no individual component will detach from the structure or substructure of the screen during high-water events.

Screens must be equipped with a manual or automatic apparatus to remove sediment and debris. With either type of apparatus, screens should be periodically cleared of accumulated debris, which must be disposed of outside the limits of the project easement.

If heavy debris loading is anticipated, a trash rack should be installed in front of the screen. Screens must be designed to prevent them from being hazardous to recreational activities in the vicinity of the screens (e.g., boating and swimming).

If piles must be placed in the levee or the riverbank near the levee to support the fish screen structure or pipes, those piles must be auger cast to the bottom of the impervious layer in the levee foundation. Beyond that point, piles may be driven.

If screens are proposed for installation on existing intake pipes, the pipes must be inspected to ensure they are in good condition prior to retrofitting.

Maintenance requirements will vary depending on the type of equipment installed, but generally will include:

- Inspection of the screen and associated structure(s) for corrosion, wear, or other deterioration;
- Maintenance of mechanical components and seals, with repair or replacement, as needed;
- Checking the screen cleaning system for effectiveness:
- · Debris and sedimentation removal; and
- Inspection of the area around the screen for erosion and scour.

Regional Categorical Permission Alteration Checklist - 13. Fish Screens

Note: The following checklist is intended for planning purposes only, and includes information that USACE reviewers look for when considering a Section 408 request for fish screens under the Regional Categorical Permission. To be reviewed under the Regional Categorical Permission, the proposed project must adhere to all requirements of the Regional Categorical Permission, including the full alteration description (see previous page). The plans and narrative project description should reflect this information.

□ New C	onstruction	☐ Replacement	☐ Modification	☐ Authorize Ex	isting
Maximum	total area of c	onstruction for fish scr	een support facilities is	s five acres:	
Reference:	[Click to enter doo	cument source. Example – plan sh	neet (p. 4), specs, report.]		
Comment:	[Click to enter rati	onale, explanation, unique situation	on, etc.]		
` ,		ed with a manual or au	utomatic apparatus to	remove	_
sediment a	and debris:				
Reference:	[Click to enter doo	cument source. Example – plan sh	neet (p. 4), specs, report.]		
Comment:	[Click to enter rati	onale, explanation, unique situation	on, etc.]		
` ,	_	ed to prevent them from f the screens (e.g., boa	•	recreational	
Reference:	[Click to enter doo	cument source. Example – plan sh	neet (p. 4), specs, report.]		
Comment:	[Click to enter rati	onale, explanation, unique situation	on, etc.]		
support the	e fish screen s	n the levee or the riverl structure or pipes, thos ervious layer in the leve	e piles will be auger c		N/A □
Reference:	[Click to enter doo	cument source. Example – plan sh	neet (p. 4), specs, report.]		
Comment:		onale, explanation, unique situation			
		on existing intake pipe they are in good cond	• •		N/A □
Reference:	[Click to enter doo	cument source. Example – plan sh	neet (p. 4), specs, report.]		
Comment:	[Click to enter rati	onale, explanation, unique situation	on, etc.]		
Hydraulic l	olockage calc	ulation ≥1%?		Yes □	No □
Reference:	[Click to enter doo	cument source. Example – plan sh	neet (p. 4), specs, report.]		
Comment:	[Click to enter rati	onale, explanation, unique situation	on, etc.]		
Hydraulic r	model used fo	r hydraulic analysis?		Yes □	No □
Reference:	[Click to enter doo	cument source. Example – plan sh	neet (p. 4), specs, report.]		
Comment:	Click to enter rati	onale, explanation, unique situation	on, etc.]		

Comment

RCP Eligibility Review

<u>Yes</u>	<u>No</u>	Add'l. Info Requested		
			Environmental Reviewer:	Date: Click date
			Engineering Reviewer:_	Date: Click date