CASE STUDY

Ameren UE
Bagnell Dam

LAKE OF THE OZARKS, MISSOURI

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FULL EXCLUSION NETTING BARRIER

To reduce entrainment and impingement of adult paddlefish and other game fish through facility turbines, Pacific Netting Products designed a full exclusion barrier for this facility. Working with others, we built sample barriers to study behavior of the fish and determine the proper mesh size to ensure the acceptance of our solution by biologists and the fish committee. We worked closely with the engineering firm to ensure an effective debris management system and fail-safe deployment that was just 10 ft from the nearest turbine intake. The project has remained 100% successful, with minimal maintenance and repair required and no failures in its first 15 years of operation.

KEY FEATURES

- Full exclusion netting barrier
- 1,200 ft long x 120 ft deep
- 1″ x 1″ and 2″ x 2″ Dyneema netting
- Located within 10 ft of the nearest intake
- Debris net: 850 ft x 20 ft installed 12 ft upstream
- Designed for single direction flow
- Periodic reverse directional currents
- Water flow velocities of 1.0 to 3.4 fps
- Minimal maintenance
- Panelized, component construction

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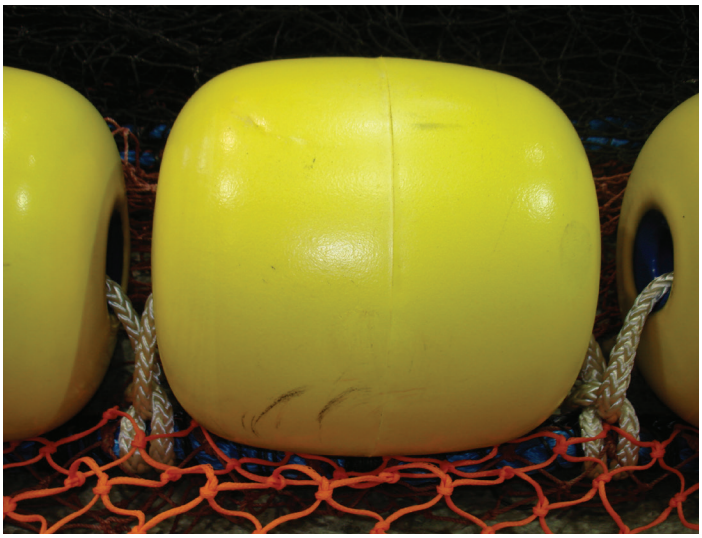
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