

Hypothetical temperature control device scenarios from the Grand Canyon Monitoring and Research Center's draft research and monitoring plan.

SCENARIO 1: Operate withdrawals that closely mimic pre-dam thermal warming of the mainstem.

SCENARIO 2: Operate withdrawals that will be at a level sufficient to promote spawning and recruitment by humpback chub at river mile 30 and other downstream aggregations.

SCENARIO 3: Operate withdrawals that will be at a level sufficient to promote spawning and recruitment by humpback chub at middle granite gorge aggregation and further downstream.

SCENARIO 4: Operate withdrawals that will be at a level sufficient to reduce thermal shock to young fish descending from tributaries, particularly the Little Colorado River, and into the mainstem.

What these scenarios might look like:

