

# **SAN JACINTO RIVER AUTHORITY** **LAKE CONROE DAM TAINTER GATE TESTING**



OWNER:	San Jacinto River Authority
ENGINEER:	Turner, Collie & Braden, Inc.
BOYER CONTRACT:	\$33,200
TYPE OF CONTRACT:	Subcontractor
PROJECT TYPE:	Testing and Evaluation
COMPLETION DATE:	May 2002

The project included determining and documenting Tainter gate pin frictions on all five of the gates while in operation. Boyer engineers designed, installed and operated data collection instrumentation to measure friction loads imposed on the structures under various operating scenarios. Evaluation included creation of a three-dimensional computer model to quantify structural interactions and loads.

The engineering report included a table with pin friction for each of the ten pins as well as deflection with and without load for future baseline reference. All data points taken were included in graphical format to document if any anomalies were present during operation. These graphs provide detailed and unique operating performance documentation for each individual pin.

