

Dan Steiner, PE

Firm: Daniel B. Steiner, Consulting Engineer

Title: **Principal**

Years of Experience: 39

Education: BS/1977/Civil Engineering

Professional License: 1980/Civil Engineer (CA)

Summary of Experience: Mr. Steiner has 39 years of experience in water resources planning, development, and management, including operations planning for multipurpose water systems. Mr. Steiner is an expert on water operations and system integration for the San Joaquin River Basin, as well as the entire CVP system.

### **CVP Operation Plan Review, San Joaquin River Exchange Contractors Water Authority, California**

During the recent drought, Mr. Steiner advised the Authority regarding CVP and SWP operations. The drought created challenges for the CVP to meet its water supply obligations to the Exchange Contractors. Mr. Steiner developed modeling tools to forecast the integrated operation of CVP facilities including the Friant Division to meet CVP demands, with consideration given to Bay-Delta requirements, fishery protection and coordination with the SWP.

### **CALSIM II, Reclamation Mid-Pacific Region, California**

Mr. Steiner was a co-developer of the San Joaquin River component of CALSIM II. The effort included the research and development of a long-term hydrologic record of stream flows, depletions and accretions for the San Joaquin River Basin. Significant to the effort was the depiction of current water project operations throughout the Valley, including considerations for water supply, power generation, flood control, water quality and fisheries.

### **SJRRP PEIS/R, Reclamation Mid-Pacific Region, California**

Mr. Steiner formulated and conducted hydrologic analyses of alternatives for habitat restoration on the San Joaquin River, including development of models for the evaluation of water supply management alternatives. The scope of the analyses incorporated water conveyance and storage opportunities within the San Joaquin Valley, and development of implementation analysis.

**Central Valley Operations, Reclamation Mid-Pacific Region, California**

Mr. Steiner directed operation of CVP facilities in California, including Trinity, Shasta, Folsom, New Melones, Millerton, and San Luis reservoirs and associated water conveyance facilities, requiring daily compliance with Delta water quality objectives, fish standards, flood damage reduction requirements and coordinated operations with the SWP.

**San Joaquin River Operation Analysis, San Joaquin River Group Authority and its member agencies, California**

Mr. Steiner is providing ongoing evaluations of hydrology and operations of the San Joaquin River, inclusive of the Stanislaus, Tuolumne, and Merced River tributaries. Mr. Steiner assisted with the development of operational agreements and water transfers, and numerous hydrologic evaluations concerning water system operations affecting the San Joaquin River, including documentation of the San Joaquin River Agreement for Reclamation and the SWRCB. He continually provides evaluations of water flow and quality conditions in the San Joaquin River, and the effect upon water system operations due to alternative regulatory requirements.

**Water Transfers, San Joaquin River Exchange Contractors Water Authority, California**

Mr. Steiner has been and continues to be the Authority's technical analyst for water transfers. The efforts have included the identification of the hydrologic effects of water transfers from the Exchange Contractors to CVP contractors, including the wildlife management areas. Mr. Steiner provided the hydrologic analysis support for the Authority's 25-year transfer program's EIR/EIS and annual accounting.

**Stanislaus River Operations and Water Supply, Oakdale and South San Joaquin Irrigation Districts, California**

Mr. Steiner developed water project models to simulate alternative plans of operations of the Stanislaus River, for which considerations included consumptive use, water quality, fishery and other regulatory requirements.

**Turlock Irrigation District and Modesto Irrigation District Don Pedro FERC Relicensing, California**

Mr. Steiner developed a daily operations simulation model of the Tuolumne River Basin inclusive of San Francisco and the Districts' facilities. The model is being used to depict current and future operations and effects of the Don Pedro Project. The model incorporates considerations for consumptive use requirements, District system operations, flood control objectives and instream flow requirements.