Patterson Irrigation District
System Modernization

Construction of "on-demand" North Recirculation System
- New regulating reservoir
- New recirculation pipeline with automated pumps and valves
- New automated flow control on laterals to restart downstream flow rate

Automation of Main Canal pumping plants to operate "on demand" as downstream control

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New SCADA system
- Remote monitor and control of:
  - Canal flow rates
  - Water levels
  - Pump characteristics

New flow measurement at the head of the Main Canal

Automation of Main Canal pumping plants to operate "on demand" as downstream control

Improved flow measurement and water level control on laterals

Proposed design of new South Recirculation System to operate "on-demand"
- New recirculation pipelines with automated pumps and valves
- Interconnection with existing regulating reservoir

San Joaquin River pumps

Small long-crested weir in lateral

Flow measurement at Lateral 1N heading

Pumps at 2N Reservoir

Automated pump and valve

Legend
- Governor Edmund G Brown California Aqueduct
- Delta-Mendota Canal
- San Joaquin River
- Main Canal
- Lateral (on-demand control)
- Lateral (downstream control)
- Lateral
- Pump
- Valve