Modernization Goals By Unit

**Hubbard Reservoir & Camas A Canal/Camas Canal Unit**
- Maximization of in-stream flows from Mill Creek to prolong storage in Hubbard Reservoir
- Simplified management of the canal unit
- Increased flexibility and reliability with water deliveries to farmers
- Restoration of operational spills and farmer runoff

**Southern Pablo Canal Unit**
- Capture and re-regulation of excess flows
- Improved utilization of Horte Reservoir as a regulating reservoir
- Improved ease of operation and reliability of water deliveries to fields
- Significant reduction of operational spills

**Mission H Canal**
- Improved safety and reduced management of the canal system
- Reduced diversions from the river
- Improved water delivery service to farmers

**Lower Jocko & Relay Canal**
- Improved flow measurement
- Increased pump flow to meet irrigation demands
- Improved water level control
- Eased management and operations

**Jocko Canal Unit**
- Buffer reservoirs along K and J canals
- Division and "restarting" of long canals
- Replacement of miles of small canals and laterals with pipelines
- Improved and newly configured stream and river structures to maintain minimum in-stream flow rates

**Valley View**
- Improved flow and water level control
- New limited-demand pipeline
- Regulating reservoir construction
- Modifications to water level control structures
- New or improved flow measurement structures
- Incorporation of SCADA
- Vibratory compaction

**Flathead Pumps & Polson Canals**
- Improvements to Flathead River Pump stations
- New pumpback system in Pablo Feeder Canal
- Conversion of canals with limited-demand pipelines
- Improved flow measurement and control
- New SCADA sites

**Crow Creeks & Reservoirs**
- Control improvements at creek crossings
- Control changes at feeder canals that supply Kicking Horse Reservoir
- Increased canal capacity
- Upgraded pump station at Crow Creek
- Multiple new or improved flow measurement sites
- Improved water level control
- Incorporation of SCADA

**Post Canal Unit**
- Improved spill sites
- Improved flow control and measurement
- Improved water level control
- Regulating reservoirs
- Conversion of laterals to limited-demand pipelines
- Incorporation of SCADA

**Placid Canal & Jocko Rivers**
- Improved spill sites
- Improved flow control & measurement
- Vibratory compaction to decrease seepage
- New SCADA sites

ITRC was contracted by the US Bureau of Indian Affairs to develop a modernization plan for the Flathead Indian Irrigation Project. The modernization plan encompassed all twelve "units" that make up the large, sprawling irrigation project. The plan focused on the following goals:

- Enable USBIA to better control and measure flows with less uncertainty
- Improve service with increased water delivery reliability, flexibility and equity
- Streamline processes for decision making to aid employee retention and training
- Decrease unnecessary diversions
- Decrease operational spills, thereby improving river quality