Overview

Every site is different and must comply with both local water purveyor guidelines and permit/code requirements

- Most Common Retrofit Issues
- Irrigation Specific Issues
- Industrial Use Specific Issues
Recycled Water Retrofit Plan

Materials List:
- 50 new irrigation heads
- 2 new recycled water quick couplers
- Approximately 80 LF of 3-inch PVC piping
- 7 new control valves
- New controller
- New control wires to valves
- New master valve
- New flow sensor

Symbols and Abbreviations:

- [Descripción de los símbolos y abreviaturas]
Most Common Retrofit Issues

- Project Proponent
- Permitting
- Shutdown Test
- Available Infrastructure
- Operations & Maintenance
- Recycled Water Knowledge
- Cost
Irrigation Specific Issues

- Parks
- Medians
- HOA's
- Commercial
- Ballfields
- Schools
- Golf courses
Irrigation Specific Issues – cont.

- Garden Areas
- Domestic Meters
- Property Boundary
- Fire Service
- Monitoring Wells
- Crossing Boundaries
- Broken Lines
- Abandoned Facilities
Common Industrial Uses

• **Cooling Towers** ➔ [GREATEST POTENTIAL]

• **Boilers**
  - Low vs High Pressure

• **Textile Industries**
  - Dye Facilities
  - Laundry Facilities

• **Other Industrial Applications**
  - Auto washing
  - Concrete batch
  - Manufacturing
Cooling Tower Customer - Issues and Concerns

- Efficiency of operation, Reliability
- Ammonia impact on heat exchanger
- Chemical treatment / Retrofit cost
- Sewer discharge volume and quality
- Worker safety, Legionella
- Additional regulatory oversight
Boiler Customer
-Issues and Concerns

• Primary concern is scale buildup and corrosion
• High vs Low – pressure conversions
  ➢ Higher the pressure the higher the quality required
• Treatment requirements and cost
• Retrofit cost / identification / etc.
• Additional regulatory oversight
• Reliability
Commercial Laundry/Textile Customer - Issues and Concerns

- Public Perception
- Consistency of Water Quality
- Impacts on existing activities
- Additional regulatory oversight
- Reliability
- Retrofit costs
- Worker safety
- Whiteness
Questions?
Thank you

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