

Recommendations

“Optimization is a process,
not an end point”

Administration/Management Recommendations

1. Improve communication by creating dialogue between staff across division lines.
2. make internal water quality and process control data available to all divisions (i.e. a network).

Administration/Management Recommendations.....Cont'd

3. Adopt Goals (optimization) to be applied to all levels of the organization
4. Address "siloing" via opening communications, adopting water quality performance goals that are applied across divisions.

Administration/Management Recommendations.....Cont'd

5. Develop a formal training program including in-house OJT and external training for plant staff.
6. Expand efforts to find qualified personnel to fill vacant positions and expand plant coverage and distribution system crew coverage. Also investigate creating a position that would be responsible for tracking regulatory compliance and optimization performance.

Operator Recommendations

1. Establish process control monitoring that is representative of utility performance.
2. Establish a written process for documenting procedures.

Operator Recommendations.....Cont'd

3. Establish a procedure and format for operators to conduct special studies at the water treatment plant and in distribution to find options to optimize operations.
4. Establish an inventory of essential equipment and assets (e.g. the streaming current monitor) and develop a program to inventory replacement parts to assist with corrective maintenance.

Operator Recommendations.....Cont'd

5. Establish a preventive and corrective maintenance program for distribution system assets such as storage tanks.
6. Establish a procedure to review incidents that occur that compromise water quality or potentially compromise water quality and take action to improve procedures in the event that the circumstances recur.

Operator Recommendations.....Cont'd

7. Develop a written set of procedures to take when power failures occur. Investigate options for minimizing the impact to water treatment when power fails and the plants are on automatic operations.

Operator Recommendations.....Cont'd

8. Investigate expansion of the Control System to allow other groups within the organization to observe tank levels.