

Water Quality Management Plan



Identify your points of risk

Water systems vary in design and complexity from building to building. The solutions required will be equally as unique. This checklist is designed to facilitate your discussion with qualified experts, to create standard operating procedures, and to implement a Water Quality Management Plan. The risk analysis checklist is provided as an interactive PDF. You can complete the fields on your computer, save the file and print out for reference. Or if you prefer, you can print out and complete by hand.

NOTICE: This checklist is provided for your individual use. Watts makes no representations that this checklist accounts for all issues that must be considered in developing a Water Quality Management Plan. Watts expressly disclaims any liability regarding the sufficiency of any Water Quality Management Plan made in conjunction with the use of this checklist.

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WATTS[®]

Hot Water Heaters

INVENTORY

Location:

Mechanical room Other _____

Characteristics/Details:

Type of heating:

Solar Gas
 Steam Tankless
 Storage tank Heat pump
 Condensing Non-condensing
 Other _____

Number of units _____
Max. temperature _____
Age of heaters _____
Capacity _____

HAZARD / HAZARDOUS EVENT

Water gets too hot
 Water gets too cold
 Scale builds on walls
 Other _____

Risk Level:

Low
 Medium
 High

PROCEDURES

Control Measures:

Test temperature
 Other _____

Parameter:

Temperature _____
Biofilm measurement _____

Frequency:

Daily Monthly
 Weekly Quarterly
 Other _____

Critical Limit:

104°F to 122°F Other _____

Corrective Action:

Increase temperature of water heater
 Remove scale
 Other _____

Reported to:

Facility Manager Infection Control Manager
 Lead Plumbing Engineer Other _____

Operational Response to Exceedance of Critical Limit:

Determine if a super heat is required
 Determine reason of temperature discrepancy
 Determine reason for scale build-up
 Report to necessary individuals/departments
 Other _____

Critical Response to Exceedance of Limit:

Internal announcement
 External announcement
 Report to CDC
 Report to other authority
 Notify Public Relations
 Other _____

ADDITIONAL NOTES

Cold Water Storage

INVENTORY

Location:

Mechanical room Other _____

Characteristics/Details:

Number of units _____ Capacity _____

Min. and max. temperature _____

Average refilling cycle _____

Material:

Concrete Fiberglass
 Steel GRP
 Polyethylene Other _____

Cleaning schedule:

Once a year Period of non-use
 Time of construction, repair, or maintenance Bacteria sampling
 Flooding event Other _____

Disinfection method:

Chlorine Other _____

HAZARD / HAZARDOUS EVENT

Water gets too hot
 Water gets too cold
 Scale builds on walls
 Other _____

Risk Level:

Low
 Medium
 High

PROCEDURES

Control Measures:

Test temperature Measure scale
 Other _____

Parameter:

Temperature _____ Biofilm measurement _____
 Other _____

Frequency:

Daily Monthly
 Weekly Quarterly
 Other _____

Critical Limit:

Temperature greater than 68° F
 Other _____

Corrective Action:

Check incoming water temperature
 Check pipework for heat transfer
 Insulate exposed cold pipes
 Determine source of scale
 Other _____

Reported to:

Facility Manager
 Infection Control Manager
 Lead Plumbing Engineer
 Other _____

Operational Response to Exceedance of Critical Limit:

Determine if a super heat is required
 Determine reason of temperature discrepancy
 Determine reason for scale build-up
 Report to necessary individuals/departments
 Other _____

Critical Response to Exceedance of Limit:

Internal announcement
 External announcement
 Report to CDC
 Report to other authority
 Notify Public Relations
 Other _____

ADDITIONAL NOTES

Chemical Treatment

INVENTORY

Location:

- Mechanical room
- Other _____

Characteristics/Details:

Type:

- Chlorine
 - Chloramines
 - Chlorine Dioxide
 - Other _____
- Dose rate _____
- Target residual at most distal point in water system _____

HAZARD / HAZARDOUS EVENT

- Strength is too high
- Strength is too low
- Other _____

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Take water samples and test for strength
- Other _____

Parameter:

Chemical level _____

Other _____

Frequency:

- Daily
- Weekly
- Monthly
- Quarterly
- Other _____

Critical Limit:

- A residual concentration for free chlorine of greater than or equal to .5mg/L (.5ppm) after at least 30 minutes contact time at pH less than 8.0
- Other _____

Corrective Action:

- Flush system
- Increase chemical level
- Decrease chemical level
- Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Other _____

Operational Response to Exceedance of Critical Limit:

- Determine if a flush is required
- Determine reason of dosage/chemical discrepancy
- Report to necessary individuals/departments
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- Not applicable
- Other _____

ADDITIONAL NOTES

Piping: Isolated (Materials)

INVENTORY

Details:

Type of material:

- Stainless steel
- Cast iron
- Brass
- Galvanized steel
- PE
- Copper
- CPVC
- PEX
- PVC
- Other _____

% of piping that is inaccessible

- 0 - 25%
- 26% - 50%
- Over 50%
- Other _____

HAZARD / HAZARDOUS EVENT

- Corrosion
- Leak
- Other _____
- Dead Leg
- Scale

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Measure flow
- Map dead leg locations
- Test temperature at POS and POU
- Determine scale build-up
- Other _____

Parameter:

- Level of legionella _____
- Flow measurement _____
- Temperature _____
- Biofilm measurement _____
- Scale level _____
- Other _____

Frequency:

- Weekly
- Monthly
- Quarterly
- Other _____

Critical Limit

Enter actual limit _____

Corrective Action:

- Replace pipes, eliminate dead leg
- Increase water temperature
- Other _____
- Reduce biofilm
- Reduce scale
- Decrease water temperature

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Other _____

Operational Response to Exceedance of Critical Limit:

- Determine if piping needs to be replaced
- Determine if flow needs to be increased
- Determine if biofilm needs to be reduced
- Determine if scale needs to be reduced
- Determine if chemical is causing leaks
- Keep record of pipework and utilize it in remodels to eliminate inaccessible areas
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- NA
- Other _____

ADDITIONAL NOTES

Piping: Isolated (Insulation)

INVENTORY

Details:

Type of insulation:

- Mineral wool
- Glass wool
- Calcium silicate
- Cellular glass
- Aerogel
- Other _____
- Rigid foam
- Polyethylene
- Flexible elastomeric foam
- Polyurethane
- Phenolic

% of piping that is inaccessible

- 0 - 25%
- 26% - 50%
- Over 50%
- Other _____

HAZARD / HAZARDOUS EVENT

- Temperature fluctuation
- Other _____

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Temperature measurement
- Scale build-up
- Biofilm build-up
- Other _____

Parameter:

- Temperature _____
- Scale level _____
- Biofilm measurement _____
- Other _____

Frequency:

- Weekly
- Monthly
- Quarterly
- Other _____

Critical Limit

Enter actual limit _____

Corrective Action:

- Replace pipes
- Reduce scale
- Reduce biofilm
- Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Other _____

Operational Response to Exceedance of Critical Limit:

- Determine if insulation needs to be replaced
- Keep record of pipework and utilize it in remodels to eliminate inaccessible areas
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- NA
- Other _____

ADDITIONAL NOTES

Piping: Isolated (Dead legs)

INVENTORY

Details:

Number of dead legs:

- 0
- 1-10
- 11-20
- Over 20
- Unknown

% of piping that is inaccessible

- 0 - 25%
- 26% - 50%
- Over 50%
- Other _____

Locations:

HAZARD / HAZARDOUS EVENT

- Scale
- Stagnation
- Other _____
- Bacteria
- Sitting water

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Map and identify dead leg locations
- Test temperature at POS and POU
- Measure flow
- Measure bacteria levels
- Document scale
- Document sitting water
- Other _____

Parameter:

Temperature _____ Flow rate _____

Bacteria level _____ Sitting water _____

Scale _____ Other _____

Frequency:

- Weekly
- Monthly
- Quarterly
- Other _____

Critical Limit

Enter actual limit _____

Corrective Action:

- Eliminate dead leg(s)
- Increase circulation
- Increase flow
- Reduce scale
- Eliminate sitting water
- Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Other _____

Operational Response to Exceedance of Critical Limit:

- Determine if dead leg needs to be eliminated and if it can be
- Determine how flow can be increased
- Determine if a filter solution will decrease negative effects of dead leg
- Keep record of pipework and utilize it in remodels to eliminate inaccessible areas
- Determine if circulation can be increased
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- NA
- Other _____

ADDITIONAL NOTES

Piping: Point-of-Use (Low flow)

INVENTORY

Details:

Areas of low flow:

- Private room faucets
- Private room showers
- Public faucets
- Drinking fountains
- Nurse stations
- Breakroom faucets
- Other _____

HAZARD / HAZARDOUS EVENT

- Scale
- Stagnation
- Bacteria
- Other _____

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Map and identify dead leg locations
- Test temperature at POS and POU
- Measure flow
- Measure bacteria levels
- Document scale
- Document sitting water
- Other _____

Parameter:

Flow rate _____

Frequency:

- Weekly
- Monthly
- Quarterly
- Other _____

Critical Limit

Enter actual limit _____

Corrective Action:

- Determine if piping design can be changed to avoid low flow areas
- If appropriate change out low flow devices to higher flow devices
- Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Other _____

Operational Response to Exceedance of Critical Limit:

- Determine how flow can be increased
- Determine if a filter solution will decrease negative effects of low flow
- Determine if circulation can be increased
- Determine if POU mixing valves can reduce negative effects of low flow
- Determine if POS mixing valves can reduce negative effects of low flow
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- NA
- Other _____

ADDITIONAL NOTES

Piping: Point-of-Use (Temperature)

INVENTORY

Locations:	Number of units:	Temperature (water in pipe):
<input type="checkbox"/> Private room faucets	_____	_____
<input type="checkbox"/> Drinking fountains	_____	_____
<input type="checkbox"/> Landscaping outlets	_____	_____
<input type="checkbox"/> Private room showers	_____	_____
<input type="checkbox"/> Nurse stations	_____	_____
<input type="checkbox"/> Pools	_____	_____
<input type="checkbox"/> Public faucets	_____	_____
<input type="checkbox"/> Breakroom faucets	_____	_____
<input type="checkbox"/> Other _____	_____	_____

HAZARD / HAZARDOUS EVENT

Temperature

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Test temperature at POS and POU
- Measure bacteria levels
- Other _____

Parameter:

Temperature _____

Frequency:

- Weekly
- Monthly
- Quarterly
- Other _____

Critical Limit

Enter actual temperature _____

Corrective Action:

- Inspect POU tempering valves
- Inspect POS tempering valves
- Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Other _____

Operational Response to Exceedance of Critical Limit:

- Determine if a filter solution will decrease negative effects of temperature discrepancy
- Determine if POS tempering device should be replaced/installed
- Determine if POU tempering devices should be replaced/installed
- Flush water at critical temperature to kill bacteria
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- NA
- Other _____

ADDITIONAL NOTES

Point-of-Use Outlets

INVENTORY

Location:	Number of units:	Temperature:
<input type="checkbox"/> Public bathroom faucets	_____	_____
<input type="checkbox"/> Drinking fountains	_____	_____
<input type="checkbox"/> Breakroom faucets	_____	_____
<input type="checkbox"/> Kitchen faucets	_____	_____
<input type="checkbox"/> Kitchen dishwashers	_____	_____
<input type="checkbox"/> Garden/Landscaping	_____	_____
<input type="checkbox"/> Pools	_____	_____
<input type="checkbox"/> Nurse station faucets	_____	_____
<input type="checkbox"/> Private room faucets	_____	_____
<input type="checkbox"/> Private room showers	_____	_____

HAZARD / HAZARDOUS EVENT

<input type="checkbox"/> Temperature	_____	Risk Level:
<input type="checkbox"/> Flow		<input type="checkbox"/> Low
<input type="checkbox"/> Other _____		<input type="checkbox"/> Medium
		<input type="checkbox"/> High

PROCEDURES

Control Measures:

Test for legionella Test temperature
 Other _____

Parameter:

Level of legionella _____
 Temperature _____

Frequency:

Daily Quarterly
 Weekly Time of check-in
 Monthly Time of check-out
 Other _____

Critical Limit:

Enter actual temperature(s) _____

Corrective Action:

Remove patient/guest from room Chemical flush
 Close off access for public/patient/staff Install POU filters
 Temperature flush Install new POU tempering valves
 Other _____

Reported to:

Facility Manager Infection Control Manager
 Lead Plumbing Engineer Other _____

Operational Response to Exceedance of Critical Limit:

Remove patient/guest from room Chemical flush
 Close off access for public/patient/staff Install POU filters
 Temperature flush Install new POU tempering valves
 Other _____

Critical Response to Exceedance of Limit:

Internal announcement External announcement
 Report to CDC Report to other authority
 Notify Public Relations Other _____

ADDITIONAL NOTES

Incoming Water

INVENTORY

Location:

Point of entry into facility (write specifics) _____

HAZARD / HAZARDOUS EVENT

- Disinfectant level at point of entry
- Bacteria level at point of entry
- Temperature at point of entry
- Other _____

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Test disinfectant level
- Measure temperature
- Test bacteria level
- Other _____

Parameter:

- Low disinfectant residual
- Low/High temperature
- High bacteria level
- Other _____

Frequency:

- Daily
- Weekly
- Monthly
- Quarterly
- Other _____

Critical Limit:

Enter actual temperature(s) _____
 Bacteria levels _____
 Disinfectant levels _____
 Other _____

Corrective Action:

- Increase chlorine level within facility
- Decrease chlorine level within facility
- Adjust point-of-use temperature
- Adjust point-of-source temperature
- Deploy other bacteria mitigation solutions
- Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Other _____

Operational Response to Exceedance of Critical Limit:

- Increase chlorine level within facility
- Decrease chlorine level within facility
- Adjust point-of-use temperature
- Adjust point-of-source temperature
- Deploy other bacteria mitigation solutions
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- Not applicable
- Other _____

ADDITIONAL NOTES

Ultraviolet Disinfection System

INVENTORY

Location:

Mechanical room Other _____

Characteristics/Details:

GPM rating _____ Dosage _____

Age of lamp _____ Replacement frequency _____

Type:

LPHO Amalgan LPHO
 LP MP
 Other _____

HAZARD / HAZARDOUS EVENT

- Dosage is 1 mLJ/cm2
- Dosage is 30mLJ/cm2
- Age of lamp is over manufacturer recommendation
- Replacement has not occurred according to manufacturer recommendation
- Watts are 44 or below, or over 100
- Other _____

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Test GPM Test dosage
- Test watts Determine age of lamp
- Compare your replacement schedule to manufacturer recommendation
- Other _____

Corrective Action:

- Increase dosage Decrease dosage
- Check lamp efficiency Replace lamp
- Change unit Appropriate maintenance
- Establish new replacement schedule Other _____

Parameter:

GPM level _____ Dosage level _____
 Age of lamp _____ Watts _____
 Testing frequency schedule _____
 Replacement frequency schedule _____

Reported to:

- Facility Manager Infection Control Manager
- Lead Plumbing Engineer Other _____

Operational Response to Exceedance of Critical Limit:

- Check age of lamp and replace if necessary
- Check watts and replace if necessary
- Overall maintenance of equipment
- Change lamp Contact manufacturer
- Other _____

Critical Limit:

- GPM of 12 or below, GPM higher than 51
- Dosage below 1mJ/cm2 or over 30mLJ/cm2
- Age of lamp is older than manufacturer recommendation
- Frequency of replacement is less than manufacturer recommendation
- Watts are below 44 or over 100
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement External announcement
- Report to CDC Report to other authority
- Notify Public Relations Other _____

ADDITIONAL NOTES

Point-of-Use Filtration

INVENTORY

Location:	Number:	Age of filter:	Size:	Replacement frequency:
<input type="checkbox"/> Public bathroom faucets	_____	_____	_____	_____
<input type="checkbox"/> Drinking fountains	_____	_____	_____	_____
<input type="checkbox"/> Breakroom faucets	_____	_____	_____	_____
<input type="checkbox"/> Kitchen faucets	_____	_____	_____	_____
<input type="checkbox"/> Nurse station faucets	_____	_____	_____	_____
<input type="checkbox"/> Private room faucets	_____	_____	_____	_____
<input type="checkbox"/> Private room showers	_____	_____	_____	_____

HAZARD / HAZARDOUS EVENT

- | | |
|--|--|
| <input type="checkbox"/> Age exceeds recommendation
<input type="checkbox"/> Legionella level
<input type="checkbox"/> Larger than .2 micron
<input type="checkbox"/> Other _____ | Risk Level:
<input type="checkbox"/> Low
<input type="checkbox"/> Medium
<input type="checkbox"/> High |
|--|--|

PROCEDURES

Control Measures:

- | | |
|---|--|
| <input type="checkbox"/> Record age | <input type="checkbox"/> Keep replacement record |
| <input type="checkbox"/> Map and identify all locations | <input type="checkbox"/> Record units and update |
| | <input type="checkbox"/> Check micron of filter |

Parameter:

Filter age _____ Filter size _____
 Replacement frequency _____

Frequency:

- | | |
|---------------------------------|--------------------------------------|
| <input type="checkbox"/> Daily | <input type="checkbox"/> Monthly |
| <input type="checkbox"/> Weekly | <input type="checkbox"/> Quarterly |
| | <input type="checkbox"/> Other _____ |

Critical Limit:

- Outside of manufacturer recommendations

Corrective Action:

- Keep strict record of purchase date, install date and replacement date
- Adhere to manufacturer replacement schedule recommendation
- Test for legionella at determined schedule
- Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Maintenance Manager
- Cleaning Manager
- Other _____

Operational Response to Exceedance of Critical Limit:

- Keep strict record of purchase date, install date and replacement date
- Adhere to manufacturer replacement schedule recommendation
- Test for legionella at determined schedule
- Choose different filter manufacturer
- Other _____

Critical Response to Exceedance of Limit:

- | | |
|--|--|
| <input type="checkbox"/> Internal announcement | <input type="checkbox"/> External announcement |
| <input type="checkbox"/> Report to CDC | <input type="checkbox"/> Report to other authority |
| <input type="checkbox"/> Notify Public Relations | <input type="checkbox"/> Other _____ |

ADDITIONAL NOTES

Copper-Silver Ionization System

INVENTORY

Location:

Mechanical room Other _____

Characteristics/Details:

Copper concentration _____
Silver concentration _____
pH Level _____

Proper licensing:

- Internal Licensed Employee
- Utilize State Licensed Personnel
- Utilize Manufacturer Licensed Representative

HAZARD / HAZARDOUS EVENT

- Level is above or below manufacturer recommendation
- Licensed personnel not utilized
- Other _____

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

Test levels Licensing records

Parameter:

Copper concentration _____
Silver concentration _____
pH Level _____

Frequency:

Daily Monthly
 Weekly Quarterly
 Other _____

Critical Limit:

- Copper concentration is above .8 ppm
- Copper concentration is below .4 ppm
- Silver concentration is above 60 ppb
- Silver concentration is below 40 ppb
- pH is greater than 8.5
- Licensing issue

Corrective Action:

Equipment maintenance State doesn't
 Hire licensed consultant require license
 Staff obtains license Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Contracted Maintenance Certified Personnel
- Other _____

Operational Response to Exceedance of Critical Limit:

- Do proper maintenance
- Replace equipment
- Correct pH level and retest
- Replace copper bars
- Replace silver bars
- Utilize licensed personnel
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- NA
- Other _____

ADDITIONAL NOTES

Point-of-Use Anti-Scalding

INVENTORY

Location:	Number:	Temperature:	Type*:
<input type="checkbox"/> Public bathroom faucets	_____	_____	_____
<input type="checkbox"/> Drinking fountains	_____	_____	_____
<input type="checkbox"/> Breakroom faucets	_____	_____	_____
<input type="checkbox"/> Kitchen faucets	_____	_____	_____
<input type="checkbox"/> Nurse station faucets	_____	_____	_____
<input type="checkbox"/> Private room faucets	_____	_____	_____
<input type="checkbox"/> Private room showers	_____	_____	_____
<input type="checkbox"/> Other	_____	_____	_____

*Typical: Pressure Reduced Mixing Valves, Thermostatic Mixing Valves, Combined Pressure Balancing, and Digital Mixing Valves

HAZARD / HAZARDOUS EVENT

- Temperature goes above 120°F
- Other _____

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Test temperature

Parameter:

Temperature _____

Frequency:

- Daily
- Weekly
- Other _____

Critical Limit:

- Temperature is greater than 120°F
- Other _____

Corrective Action:

- Check valve(s)
- Replace valve(s)
- Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Other _____

Operational Response to Exceedance of Critical Limit:

- Maintain measurement schedule according to state and organization policy
- Correct any non-functioning valves
- Replace valves
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- NA
- Other _____

ADDITIONAL NOTES

Point-of-Source Anti-Scalding

INVENTORY

Location:

- Mechanical room NA Other _____

Characteristics/Details:

Temperature:

- Below 122°F 123°F to 131°F
 132°F to 140°F 141°F to 151°F
 152°F to 158°F Other _____

Digital:

- Yes No

Connected to BAS:

- Yes No

HAZARD / HAZARDOUS EVENT

- Below 125°F NA
 Above 140°F
 Other _____

Risk Level:

- Low
 Medium
 High

PROCEDURES

Control Measures:

- Test temperature NA

Parameter:

Temperature _____

Frequency:

- Daily Other _____
 Weekly NA

Critical Limit:

- Below 125°F Other _____
 Above 140°F NA

Corrective Action:

- Test temperature according to code, state, and organization policy
 Perform maintenance on equipment
 Increase temperature
 Decrease temperature
 NA
 Other _____

Reported to:

- Facility Manager Infection Control Manager
 Lead Plumbing Engineer NA
 Contracted Maintenance Certified Personnel Other _____

Operational Response to Exceedance of Critical Limit:

- Test temperature according to code, state and organization policy
 Perform maintenance on equipment
 Increase temperature
 Decrease temperature
 Replace mixing/tempering equipment
 Change to digital mixing equipment
 NA
 Other _____

Critical Response to Exceedance of Limit:

- Internal announcement Notify Public Relations
 External announcement NA
 Report to CDC Other _____
 Report to other authority _____

ADDITIONAL NOTES

Point-of-Source Filtration

INVENTORY

Location:

- Mechanical room (give details) _____
- Other _____

Characteristics/Details:

Age of filter/media _____ Number of units _____
 Replacement frequency _____ Strength _____

HAZARD / HAZARDOUS EVENT

- Manufacturer replacement schedule has not been maintained
- Legionella level
- Scale level
- Sediment level
- Other _____

Risk Level:

- Low
- Medium
- High

PROCEDURES

Control Measures:

- Record age
- Map and identify all locations
- Other _____
- Keep replacement record
- Record units and update
- Test and record strength

Parameter:

Age of lamp _____
 Replacement frequency _____
 Strength of lamp _____

Frequency:

- Daily
- Weekly
- Monthly
- Quarterly
- Other _____

Critical Limit:

- Per manufacturer recommendations
- Other _____

Corrective Action:

- Replace filter
- Maintenance
- Decrease number of units
- Replace unit
- Increase number of units
- Other _____

Reported to:

- Facility Manager
- Infection Control Manager
- Lead Plumbing Engineer
- Maintenance Manager
- Other _____

Operational Response to Exceedance of Critical Limit:

- Keep strict record of purchase date
- Install date and replacement date
- Adhere to manufacturer replacement schedule recommendation
- Test for legionella at determined schedule
- Increase number of units
- Change manufacture/type
- Other _____

Critical Response to Exceedance of Limit:

- Internal announcement
- External announcement
- Report to CDC
- Report to other authority
- Notify Public Relations
- NA
- Other _____

ADDITIONAL NOTES

