



Steam Trap Maintenance Checklist

12 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Visual Checks

- ☐ Inspect trap bodies, connections, and unions for leaks and corrosion
- ☐ Inspect insulation on steam and condensate lines around each trap
- ☐ Check condensate return lines for signs of flooding or waterhammer

Functional Checks

- ☐ Survey each trap by ultrasonic and thermal methods to determine its condition
- ☐ Identify and tag traps that have failed open and are passing live steam
- ☐ Identify traps that have failed closed and are backing up condensate
- ☐ Verify isolation valves either side of each trap operate freely
- ☐ Check the trap type and size remain appropriate for the duty served
- ☐ Verify air vents and vacuum breakers operate where fitted

Cleaning & Housekeeping

- ☐ Check upstream strainers for blockage and clean where fitted

Record Keeping

- ☐ Update the trap register with location, type, size, and condition
- ☐ Estimate and record steam loss from failed traps for the energy case

Maintenance Frequency

Quarterly

- Spot survey of critical and high-pressure traps
- Visual inspection for visible leakage

Annually

- Full trap survey across the whole population
- Strainer cleaning
- Trap register update
- Steam loss estimate and replacement programme