STEAM TRAP TESTING FLOW CHART

CHART 1310

Armstrong

DEFINE **TYPE** OF OPERATION EXPECTED (**TYPE** OF TRAP, PRESSURE, CONDENSATE LOAD, **EQUIPMENT** BEING DRAINED, ETC.)

IS STEAM SYSTEM STABILIZED ? — NO → AVOID TESTING DURING START UP OR SHUT DOWN OF STEAM SYSTEM.

YES

IS TRAP HOT ? — NO → IS STEAM TURNED ON ? — NO → DELAY TESTING UNTIL STEAM HAS BEEN TURNED ON.

(TEMPERATURE)

YES

IS STEAM TURNED ON ? — YES → IS THERE PRESSURE TO TRAP ? — NO → FIND & CORRECT PROBLEM (PLUGGED STRAINER, CLOSED VALVE, ETC.)

YES

TRAP IS PROBABLY FAILED CLOSED OR AIR BOUND

WHAT TYPE OF TRAP ?

INVERTED BUCKET

CAN TRAP DISCHARGE CYCLES BE HEARD? — YES / INTERMITTANT DISCHARGE → SOUND LIKE TIGHT SHUT OFF BETWEEN DISCHARGES ? — YES → GOOD TRAP

(SOUND)

NO

CONTINUOUS DISCHARGE

(SOUND OR VISUAL)

SOUND LIKE TIGHT SHUT OFF BETWEEN DISCHARGES ? — NO, → CAN RUSHING STEAM BE HEARD OR SEEN ? — NO → GOOD TRAP

YES → REPLACE OR REPAIR TRAP

(SOUND OR VISUAL)

IS CONDENSATE LOAD APPROACH ING TRAP'S CAPACITY ? — YES → PROBABLY GOOD TRAP

NO

CAN RUSHING STEAM BE HEARD OR SEEN? — NO → INVERTED BUCKET TRAPS CAN MODULATE ON CONDENSATE LOADS THAT ARE A SMALL % OF RATED CAPACITY—GOOD TRAP

YES

REPAIR OR REPLACE TRAP

DISC

TRAP IS PROBABLY LEAKING STEAM

HIGH CYCLE RATE — YES ← CAN TRAP DISCHARGE CYCLE BE HEARD? — LOW CYCLE RATE / YES → DOES TRAP APPEAR TO BE LEAKING STEAM? — NO → GOOD TRAP

(SOUND)

(SOUND OR VISUAL)

YES → REPAIR OR REPLACE TRAP

CONTINUOUS DISCHARGE

NO

DOES TRAP APPEAR TO BE LEAKING STEAM? — NO → TRAP IS PROBABLY RESPONDING TO A HEAVY CONDENSATE LOAD

(VISUAL)

YES → REPAIR OR

FLOAT & THERMOSTATIC

IS TRAP PROVIDED WITH A GAGE GLASS? — YES → IS CONDENSATE LEVEL ABOVE COND. ORIFICE? — YES → TRAP IS PROBABLY LEAKING

NO → (VISUAL)

NO

CAN RUSHING STEAM BE HEARD? — NO → PROBABLY GOOD TRAP

(SOUND)

YES

DOES TRAP APPEAR TO BE LEAKING STEAM? — NO → GOOD TRAP

(VISUAL)

YES → REPAIR OR REPLACE

BELLOWS THERMOSTATIC OR BI-METALLIC

IS TRAP CYCLING? — YES → TIGHT CLOSURE BETWEEN CYCLES? — YES → GOOD TRAP

(SOUND)

(SOUND OR VISUAL)

NO → TRAP IS PROBABLY LEAKING

CAN RUSHING STEAM BE HEARD? — YES → REPAIR OR REPLACE TRAP

(SOUND)

NO

DOES TRAP APPEAR TO BE LEAKING STEAM? — NO → PROBABLY GOOD TRAP

(VISUAL)

YES → REPAIR OR REPLACE TRAP