

# TOP 10 GAS DEFECTS



## INSTALLATION OF 636 PVC / CPVC

**349 DEFECTS WERE FOUND, CONSISTING OF:**

**128 Configuration of Venting**

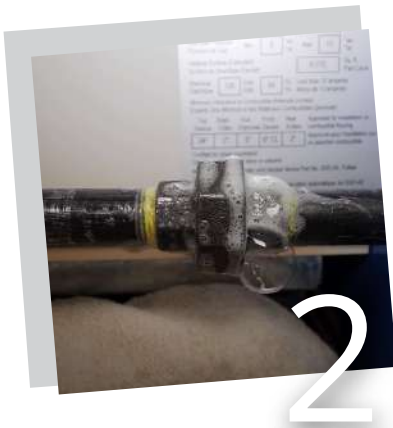
- not terminated per manufacturers' instructions
- grading issues

**102 Assembly Issues**

- joints not glued
- leaking joints
- mis-matched material

**119 Not Adequately Supported**

- spacing exceeding 5 feet
- dips and sags



## GAS LEAKS

**327 GAS LEAKS WERE FOUND:**

- 152 black iron piping
- 79 black iron unions
- 56 CSST
- 25 flare joints
- 15 appliance connectors



## SWING JOINTS

**272 DEFECTS WERE FOUND, CONSISTING OF:**

**136 Defects Related to Swing Joint Issues**

- piped incorrectly without two consecutive 90's on the same horizontal plane
- exceeds 45 degrees
- not installed

**107 Defects for Swing Joints for Appliances on Earth Supported Floors**

- 93 black iron swing joints
- 14 CSST requires offset

**29 Defects for Swing Joints on Underground Piping**



## SIDE WALL VENT TERMINATIONS

### 170 SIDE WALL VENT TERMINATION CLEARANCE DEFECTS WERE FOUND:

#### 106 B149.1 Non-Compliant

- vent to regulator
- vent to building opening
- vent to mechanical air intake

#### 64 SCOP Property Clearance

- 35 in the no go zone (less than 4ft to property line)
- 29 required directional device (between 4 and 8ft)



## RELIEF VALVES

### 119 DEFECTS WERE FOUND FOR RELIEF VALVE ISSUES:

#### 18 Miscellaneous

- 9 discharge reduced in size
- 2 boiler relief not installed upright
- 7 inoperable

#### 17 Not Installed

- 8 pool heaters
- 7 hydronic heating side
- 2 tankless water heaters

#### 73 Not Terminated Within 12 Inches of the Floor

#### 11 Others



## ACTIVATION TAG NOT INSTALLED

### 117 DEFECTS WERE FOUND FOR NOT INSTALLING AN ACTIVATION TAG:

- primarily the result of not performing a start up



## PLENUM ACCESS

### 110 DEFECTS WERE FOUND FOR PLENUM ACCESS:

- too small for SCOP requirement
- too high above furnace
- cover installed but not cut-out
- access opening not provided



## CLEARANCE TO COMBUSTIBLES

**92 DEFECTS WERE FOUND FOR CLEARANCE TO COMBUSTIBLES:**

- 33 ranges or cook tops to cabinets
- 23 vent connectors
- 17 tube heaters
- 10 vent or chimney
- 9 others



## SIZING OF GAS LINES

**81 DEFECTS WERE FOUND FOR UNDERSIZED GAS LINES:**

- 45 black iron
- 33 CSST
- 3 hose or connector



## SUPPORT OF GAS PIPING AND TUBING

**DEFECTS FOUND, OTHER THAN CSST:**

*67 Defects for Inadequate Support of Piping or Tubing Other Than CSST*

- primarily black iron
- copper tubing

*Defects Identified*

- maximum spacing exceeded
- non-metallic clips used
- roof top piping not supported at fittings