



SF₆ Inspection

Chicago White Metal Casting

July 26, 2004

SF₆ System Specifications

- SF₆ is mixed with dry air
- Dry air used has a dew point of -100 deg F
- SF₆ to air mixture is .4%
- Main distribution line pressure is at 90 PSI
- Branch lines to furnaces are at 20 PSI
- Flow rate is 6-10 sq. cu. Ft./hr

Gas-Air mixer

No leaks detected



2002 Inspection Gas-Air mixer

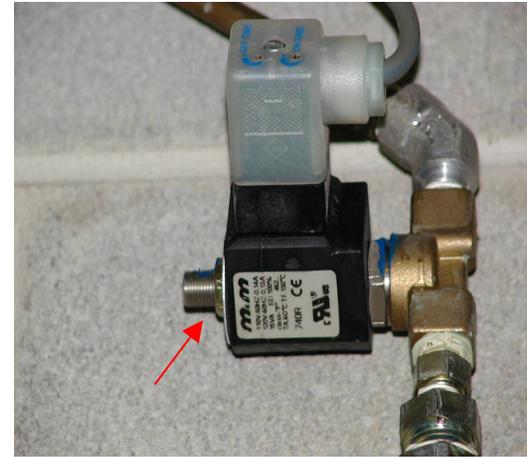
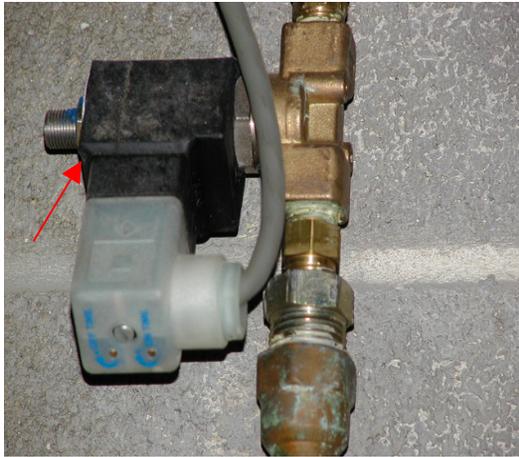


Inspection of Piping Aisle



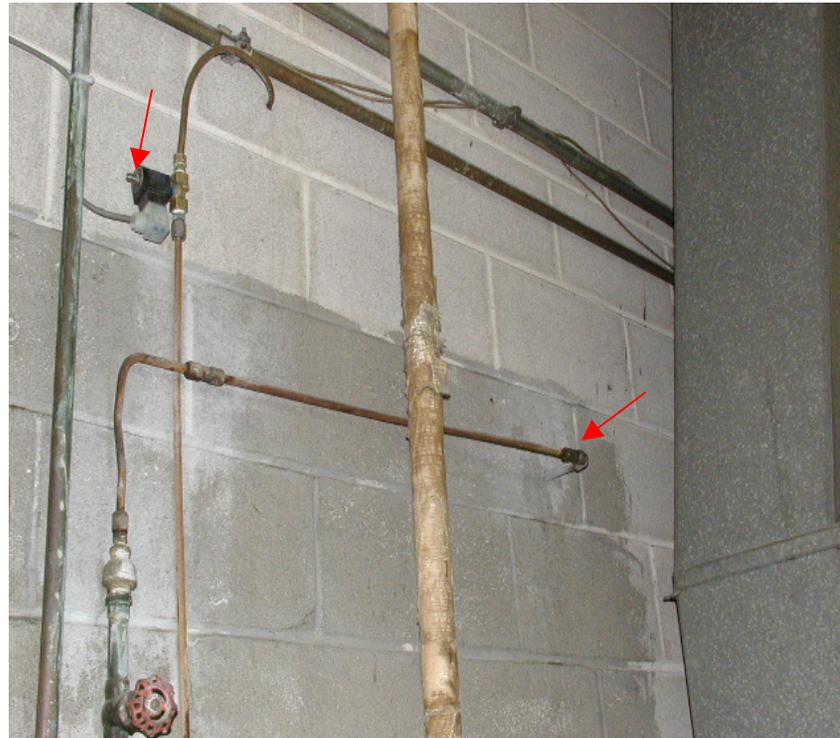
Piping Aisle

Leaks on pulse valves #29 and #27



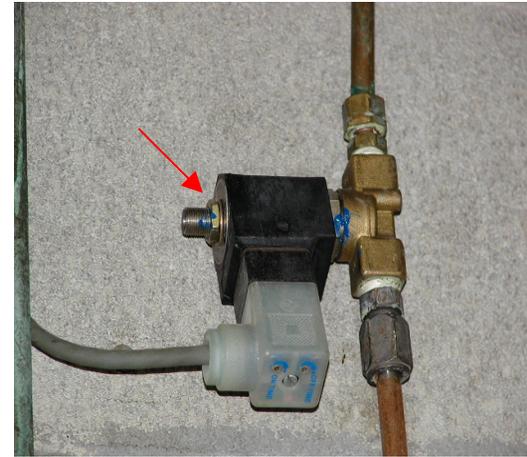
Piping aisle

Leaks on flare fitting and pulse valve #22



Piping Aisle

Leaks on flare fitting and pulse valve #22



Piping Aisle

Leak on pulse valve #21



Distribution line Inspection at casting furnace



Machine #13

Leak on shaft seal



Machine #14

Leak on shaft seal and gas line above floor



Machine #21

Leak at coupling/gas line connection



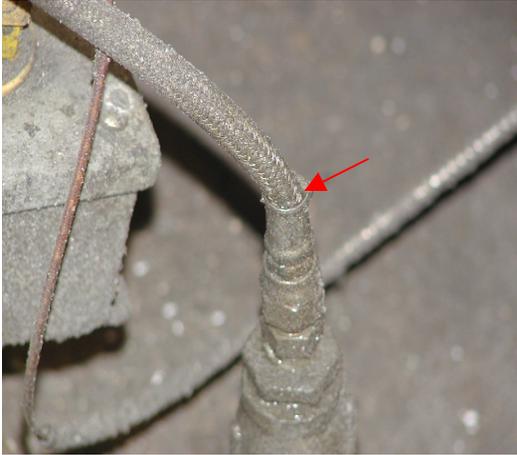
Machine #21

Leak at coupling/gas line connection



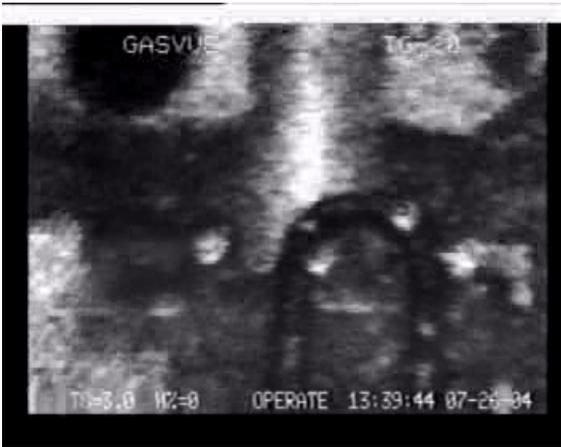
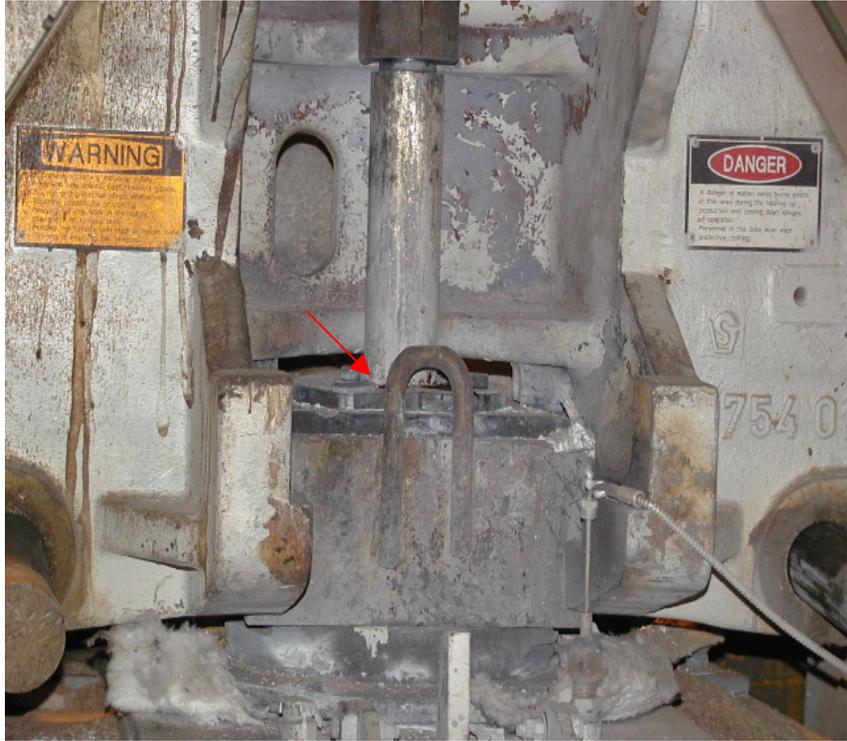
Machine #24

Leak at gas line and shaft seal



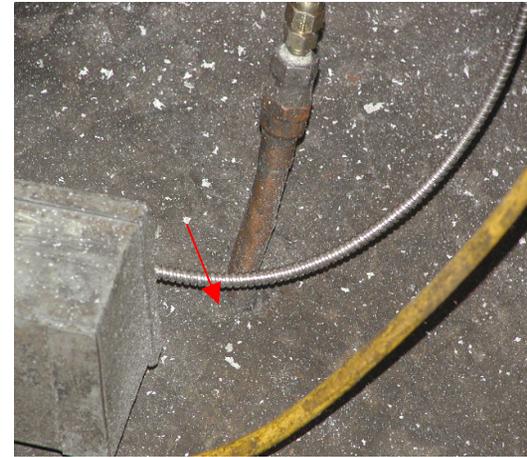
Machine #25

Leak at shaft seal



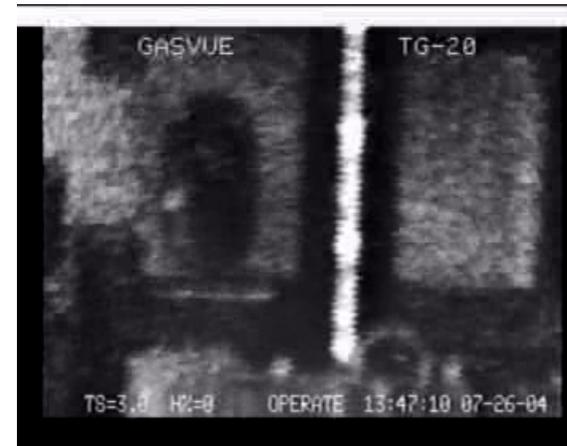
Machine #27

Leak at copper gas line



Machine #27

Leak at shaft seal



Machine #30

Leak around shaft seal plate

