

PUBLIC BUILDINGS SERVICE

INSPECTION REPORT OF UNFIRED PRESSURE VESSELS (Make separate report for each pressure vessel)

CITY AND STATE

BUILDING

REGION NUMBER

HEADQUARTERS

DATE OF INSPECTION

1. NUMBER OF UNFIRED PRESSURE VESSELS IN BUILDING SUBJECT TO INSPECTION

2. PLANT PRESSURE VESSEL NUMBER

3. MANUFACTURER'S NAME

3A. MANUFACTURER'S NUMBER

4. TYPE OF PRESSURE VESSEL

- Checkboxes for: BOILER FEED HEATER (Closed type), COMPRESSED AIR TANK, COOLER, REFRIGERATION OR COMP. AIR, DOMESTIC HOT WATER TANK, CONDENSER, STEAM OR REFRIGERATION, OIL HEATER, HYDRO-PNEUMATIC TANK, LIQUID RECEIVER, OTHER (Specify type)

5. \*TYPE OF SUPPORTS

6. \*DATE MANUFACTURED

6A. \*DATE INSTALLED THIS LOCATION

7. TYPE OF SHELL CONSTRUCTION (Riveted, welded, etc.)

8. MATERIAL AND GAUGE OF SHELL

9. OVERALL DIMENSIONS OF SHELL

10. \*STATE SERVICE (Boiler feed, domestic hot water, etc.)

11. MANUFACTURER'S RATING

CAPACITY (G.P.M.; LBS. P.M.; ETC.), DESIGN PRESSURE (Shell) LBS./SQ. IN., MAXIMUM SAFE WORKING PRESSURE LBS./SQ. IN.

12. MAXIMUM PRESSURE UNDER WHICH VESSEL IS NOW OPERATED

LBS./SQ. IN.

13. HAS SHELL OPERATING PRESSURE EVER BEEN REDUCED, BASED ON AN OFFICIAL RECOMMENDATION?

YES NO

13A. IF SO, STATE DETAILS

14. DATE OF LAST INSPECTION

15. NAME AND TITLE OF LAST INSPECTOR

16. TYPE OF HEATING OR COOLING MEDIUM

- Checkboxes for: STEAM, WATER, AMMONIA, F-11, F-12, OTHER (Specify)

17. \*DESCRIPTION OF HEAT TRANSFER SURFACE

- Checkboxes for: TUBE NEST, SPIRAL COILS, RETURN BEND COILS, OTHER (Specify)

18. \*AMOUNT OF TUBE SURFACE

SQ. FT.

19. \*NUMBER AND LENGTH OF TUBES

20. \*DIAMETER OF TUBES (O.D.)

21. \*MATERIAL AND GAUGE OF TUBES

22. GENERAL CONDITION OF PRESSURE VESSEL

23. HAS INTERIOR OF SHELL BEEN PROTECTED AGAINST CORROSION?

YES  NO

23A. IF SO, DESCRIBE SAME

24. DOES VESSEL CONTAIN OIL?

YES  NO

24A. DOES VESSEL CONTAIN GREASE?

YES  NO

24B. DOES VESSEL CONTAIN SCALE?

YES  NO

24C. IF SO, TO WHAT EXTENT ARE QUANTITIES CONSIDERED SERIOUS?

25. WAS PITTING OR CORROSION APPARENT?

YES  NO

25A. IF SO, TO WHAT EXTENT?

26. DOES VESSEL SHOW SIGNS OF DISTORTION?

YES  NO

26A. IF SO, TO WHAT EXTENT?

27. HAS CORROSION INHIBITOR BEEN USED?

YES  NO

27A. IF SO, DESCRIBE SAME

28. CONDITION OF HEAT TRANSFER SURFACE

29. CONDITION OF TUBE SUPPORTS

30. SHELL (Hydrostatic) (Pneumatic) PRESSURE OF

LBS./SQ. IN. WAS APPLIED

31. DID PRESSURE VESSEL SHOW DEFECTS UNDER THIS PRESSURE?

YES  NO

31A. IF SO, WHERE AND TO WHAT EXTENT?

32. WAS TEST PRESSURE 1 1/2 TIMES THE MAXIMUM ALLOWABLE WORKING PRESSURE AS RATED BY THE MANUFACTURER?

YES  NO

32A. IF NOT, WHY WAS MAXIMUM PRESSURE NOT APPLIED?

33. RECOMMENDED MAXIMUM SAFE WORKING PRESSURE AS A RESULT OF THIS TEST

LBS./SQ. IN.

34. \*PRESSURE RELIEF VALVES

NUMBER

TYPE

SIZE

35. ARE THESE VALVES ALSO DESIGNED FOR TEMPERATURE PROTECTION?

YES  NO

36. IF NOT, IS THERE ANY TEMPERATURE PROTECTION OR CONTROL?

YES  NO

36A. DESCRIBE SAME

37. STATE CONDITION OF PRESSURE AND/OR TEMPERATURE RELIEF VALVES

38. DESCRIBE ANY OTHER CONTROLS AND STATE THEIR CONDITIONS

39. WERE RELIEF VALVES RESET?

YES  NO

39A. IF SO, FOR WHAT CONDITIONS?

40. CONDITION OF PRESSURE VESSEL GAUGES AND THERMOMETERS

41. WHAT VARIATION IN PRESSURE AND/OR TEMPERATURE EXISTED BETWEEN PRESSURE VESSEL GAUGES AND THERMOMETERS AND INSPECTOR'S TEST GAUGE AND THERMOMETER AT WORKING PRESSURE AND TEMPERATURE?

42. WERE GAUGES AND THERMOMETERS CORRECTED OR RENEWED?

YES  NO

43. DOES VESSEL CONTAIN SAFETY PLUGS?

YES  NO

43A. IF SO, STATE CONDITION

44. WERE SAFETY PLUGS RENEWED?

YES  NO

45. CONDITION OF GAUGE GLASS, IF FITTED

46. CONDITION OF PIPE CONNECTIONS AND ATTACHMENTS

47. CONDITION OF HEAT TRANSFER HEADER MANIFOLD

48. WAS HEAT TRANSFER SYSTEM TESTED FOR TIGHTNESS?

YES  NO

48A. IF SO, DESCRIBE METHOD AND GIVE RESULTS

49. WHAT REPAIRS OR ALTERATIONS HAVE BEEN MADE SINCE LAST INSPECTION AND WHY WERE THEY MADE?

50. IF TOXIC GASES ARE USED IN PRESSURE VESSEL, HAS ADEQUATE PROVISION BEEN MADE TO PROTECT PERSONNEL?

51. HAS ADEQUATE PROVISION BEEN MADE FOR FIRE FIGHTING?

52. HOW DO PERSONNEL IN CHARGE OF THIS EQUIPMENT GRADE?

COMPETENT

DOUBTFUL

INCOMPETENT

GIVE RECOMMENDATIONS REGARDING PERSONNEL

53. IN YOUR OPINION IS THIS UNFIRED PRESSURE VESSEL IN A SAFE CONDITION TO BE OPERATED?

YES  NO

53A. IF ANSWER TO QUESTION 53 IS NO, THE INSPECTOR WILL NOTIFY THE CUSTODIAN, OR BUILDING SUPERINTENDENT, IMMEDIATELY IN WRITING, NOT TO USE SAME AND GIVE COMPLETE DETAILS TO REGIONAL OFFICE BY WIRE.

54. RECOMMENDATIONS AND REMARKS BY THE INSPECTOR (include alterations, additions or repairs considered necessary)

54A. SIGNATURE OF INSPECTOR

54B. TITLE OF INSPECTOR

55. RECOMMENDATIONS AND REMARKS BY LOCAL OFFICER OR ENGINEER IN CHARGE

55A. SIGNATURE OF OFFICER IN CHARGE

55B. OFFICIAL TITLE OF OFFICER IN CHARGE

NOTE: Use additional sheets if necessary, to supplement the above remarks