

ABSTRACT

Hafizh Khalizh Ar Rahman (20420533)

ANALYSIS OF HYDROSTATIC TEST ON SHELL AND TUBE METHANOL HEATER H073 AT PT. INTAN PRIMA KALORINDO

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Key Word : Heat Exchanger, Shell and Tube, Hydrostatic Test

(xii+ 30+ Appendix)

FAT (Factory Acceptance Test) is a procedure to ensure the equipment/product purchased is according to specifications. Hydrostatic Test is one of the tests required to measure the strength of a vessel subjected to pressure (usually static pressure) such as a pressure vessel in Pascal pressure units in SI units or Psi in imperial. The purpose of this test is to check whether or not there is a leak in the system, so that the piping system or container is guaranteed to store and or distribute the fluid to be used in the system. Doing direct testing on Methanol Heater H073 at PT. Intan Prima Kalorindo. From the results of the hydrostatic test on the Methanol Heater H073 that has been carried out, it shows the strength of the vessel's resistance when given pressure in accordance with standard specifications both from ASME standards and standard specifications from the user. In this Hydrostatic Test, standard specifications are used by ASME Sec.VIII Div.1 Edition 2021 and user specifications. The results obtained in this test are that the pressure exerted on both the shell side and the tube side exceeds specifications, namely 235 Psi on the shell side and 120 Psi on the tube side. The acceptance criteria for the hydrostatic test itself refers to the resistance to pressure and also the absence of leaks in the shell and tube. Hydrostatic test from Methanol Heater H073 obtains resistance values according to specifications. So it can be concluded that Methanol Heater H073 passed the hydrostatic test.

Bibliography (1950-2021)