ABSTRACT

TECHNICAL ANALYSIS CHECK VISUAL DEFECTS IN THE ROOT WELDING AT TUBE JOINT USING BORESCOPE

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In the welding can not be prevented from welding defects. This is because many of the conditions that make welding is not perfect. One type is the GTAW or TIG welding (tungsten inert gas) welding using electrodes that are enveloped by the gas. Many benefits can be gained from this process of welding, but welding defects can not be avoided. In welding there are three stages of the root, filler, and the capping / cover. Join a variety of materials, one of which is the joint tube. In this tube join if it will see the flaw can not use the naked eye. To see the defects in the root, needed a tool called borescope.

In welding the root, if the defect can be detected using radiography testing (RT). However, sometimes a small defect such as crack can not be read or detected by radiography tests. Thus, the use of borescope is required to view the joint tube to tube. Borescope can take a picture of a small camera inserted into the joint position. If there are indications of defects will be photographed, then analyzed whether the defect is still acceptable or not.

In the process visual borescope to determine the condition of the root weld. At the joint tube to the tube if there is a defect or not and acceptable or not. Solving problems at the root of weld defects can be known if the frequency is found defective. Each type of defect has its own causes.

Keyword: Borescope, Radiography test, Visual check welding, Root.