ABSTRACT

The role of an AutoCAD drafter in offshore facility construction is essential in ensuring that technical drawings are accurate, detailed, and aligned with project specifications. This final project report is based on the author's direct experience working as a drafter at PT. Bentala Teknik Mandiri, a company specializing in offshore construction. The focus of the project was the drafting process for SPM (Single Point Mooring) Buoy systems, particularly the structural drawings of the buoy and the piping assembly layout. The research was conducted through direct observation, technical document analysis, and implementation of CAD-based solutions. The results show that optimizing the use of AutoCAD features, applying standardized drafting procedures, and improving coordination with the engineering team significantly enhance drafting efficiency and reduce errors. These findings highlight the importance of a structured and well-supported drafting workflow in contributing to the success of offshore construction projects.

Keywords: AutoCAD Drafter, SPM Buoy, Technical Drawing, Drafting Standardization, Offshore Piping, PT. Bentala Teknik Mandiri, Work Efficiency.