DESIGN OF DETECTION SYSTEM COORDINATE SHIP IN WATER SHELTER USING A GLOBAL POSITIONING SYSTEM (GPS)

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Abstract
In the industry of steam generators, the water will be use as the principal ingredient to be perform for process generator of electrical steam power have important roles in the operation. So that in each plant usually having a water shelter. In this plant, water supply will be used as a cooling water system for condenser. So water shelter must be protected the level to operation steam generator, so operation will can work optimally and it’s with does process dredging mud in the water shelter. But in currently in the process have not to monitoring for water level, so the water shelter can stay stabile. Of this problem appear idea to do monitoring system using a measuring the water level, that will be equipped global positioning system (GPS ). On this final project, does making detection system coordinate ship on the water shelter, which serves to determine point of measurement of a vessel so area canal can be monitoring at the water level, in this process using the Global Positioning System (GPS) and the arduino connected using wireless XbeePro module communications. After that it will coordinate the data recorded on the My SQL database and will then be shown to display on the web in goggle maps. With the obtained values error ±5.88 m or 17.67% and accuracy tools approximately 82.3%.

Keywords : Water Shelter, Mapping Area, and Ship Coordinate Detection