ABSTRACT

Heat Recovery Steam Generator power plant is one of preferred power plant since some reason which are, need small area and it's not tall size, has a simple system since they do not have self combustor also it’s unit installation process is getting faster.

Some consideration mentioned above reflect to establishment of many HRSG units, especially in the United State of America which have increasing of electricity demands.

In addition, man hours rate in the United State of America is very expensive compared to others countries. These conditions are causing a very high competence among HRSG’s fabricators to speed up their HRSG’s unit installation.

Answering this problem, there are need to have solution to speeding up HRSG's unit installation process and reduce possibility cost to win a contract of establish HRSG.

A Value Engineering method is one solution which able to use to overcome a faster installation process alternative and reduce cost of some component system inside of HRSG, one is Cold Reheated System. The selection process of Cold Reheated system and Cold Reheated Support are in five phrases, which are Information phrase, Creative phrase, Analyst phrase, development phrase and presentation phrase.

From four types Cold Reheated and Cold Reheated Support picked as selective alternative and added with current alternative for comparison, resulted a Cold Reheated and Cold Reheated Support detain which have high performance and low cost, that is Vertical Manifold with Steam Cooled Support, by combining some riser pipe to be one big pipe as manifold also located the support on vertical manifold outside casing. With performance resulted .39.09, and value 2.38.