

Creative/Applied Basic Design for Phosphoric Acid Plant based on the Convergence of
Engineering and Humanities & Social Science (공학과 인문사회과학의 융합에 기반한 인산공
장의 창의적/응용 기본설계)

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The purpose of this research is to introduce creative thinking ability for basic applied design of chemical plants based on the convergence concept of Engineering and Humanities & Social Science (EHSS). For coming future, we engineers are necessary to apply for the this convergence concept on the basic design. This creative thinking ability originated from the EHSS are basically required for creative evolution of basic design. Without introduction of this sustainable creative evolution on basic design, it is as clear as the light that the useful life of current conventional basic design is terminated from the side of overall efficiency. So, as an example, basic design of Phosphoric Acid Plant will be shown based on the EHSS. Accordingly, this research shows extension of creative thinking ability in the course of the basic design through the EHSS on the Philosophy of Engineering. Moreover, contents of this research are based on practical hands-on experiences through consulting/coaching activities at home and abroad industries.