Abstract

By careful planning and execution of a Human Factors Integration Plan (HFIP) at the relevant phases of the Facility Design Process, the safety, quality and long-term cost benefits associated with HF can be maximized with minimal impact on engineering and construction costs and schedule. The aim of this presentation is to discuss effective integration of Human Factors into a five phase facility design process. Various case studies will be used to demonstrate examples of successful integration.

Generic industry best practice of the project development and execution process consists of five phases:

1. Identify and assess opportunities
2. Generate and select alternatives
3. Develop preferred alternatives
4. Execute
5. Operate and evaluate

The majority of the HF activity takes place during Phases 4 (although there is also opportunity for input during Phases 3 and 5). It is highly desirable that these HF activities are not run alongside engineering, but are an integrated part of it. Lessons learnt from the case studies are presented and discussed with recommendations for considering HF in future design projects.

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