Project Wide development of a Protective Devices Register

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Abstract

This paper reviews the implementation and development of a ‘protective devices register’ on a large multi-unit, multi-EPC, refinery project.

A fundamental element of the project’s HSSE goals was defined as the development on the project, for subsequent turnover to plant personnel, of a ‘protective devices register’ to allow for monitoring, controlling, and testing of plant systems, equipment, and devices that contribute to preventing, detecting, controlling, or mitigating major accidents.

There are two criteria then when met make it mandatory for an item or system to be included in the protective devices register,

1. Device is included in the Master Protective Devices Listing
2. The device’s main service function is to prevent an accident that could have direct impact on the safety of people, the environment or the integrity of the Plant (prevent hydrocarbon releases) and provide emergency response (escape, refuge, evacuation, recovery) provisions.

Since many control systems devices will fall into to the protective devices register and since a database already exists for those devices, a download from the instrument index can provide a great deal of the information for the register. Other devices that are non instrument must have the required information gathered from vendor literature, drawings and documents.

This paper will review how the project went about the task of developing the protective devices register for the project, who was responsible for its development, and how the task is proceeding.