Guide to Advanced Control Systems

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Guide to Advanced Control Systems

1 General

1.1 Introduction

This Recommended Practice (RP) addresses the implementation and ownership of advanced control systems for petroleum processing facilities. The major sections of this RP are described in 1.2.2 through 1.2.7.

Figure 1 illustrates the major functions involved in the efficient and economic operation of a refinery and shows where advanced control fits into this scheme. Advanced control systems form a fundamental building block on which many of the other functions depend. Similar function charts would be applicable to other types of continuous processing facilities. Similar function charts would be applicable to other types of continuous processing facilities.

1.2 Scope

1.2.1 General

This RP describes commonly used practices for the opportunity identification, justification, project management, implementation, and maintenance of advanced control systems. This practice is not intended to specify the use or selection of any particular technique over another, nor is intended to describe specific applications. It may be used as the basis for defining the work processes and common functions required to define, implement, and maintain advanced control systems.

The practices described in this document are applicable to all advanced control systems applications. Users who are experienced in advanced control may have developed their own equivalent practices. This document is not intended to supersede user practices that have been found to be acceptable or to require that the practices described in this document be followed if they are not appropriate to the circumstance.

Selection of a specific hardware platform, software platform, or application software is not within the scope of this RP

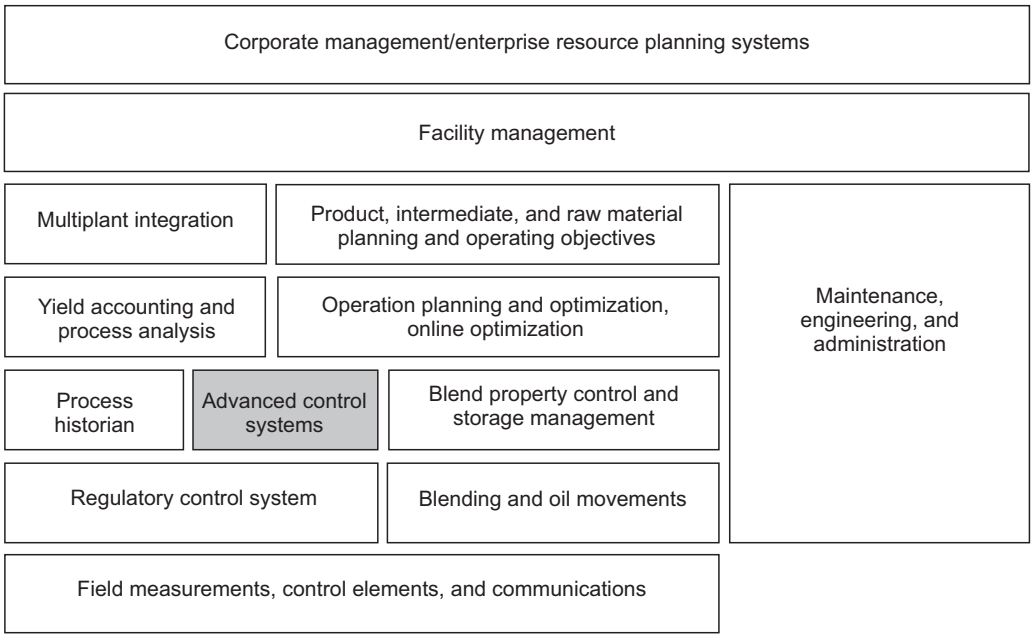


Figure 1—Refinery Operation Functions