APPARATUSES, COMPUTER-IMPLEMENTED METHODS, AND COMPUTER PROGRAM PRODUCTS FOR DUAL-HORIZON OPTIMIZATION OF A PROCESSING PLANT

Abstract

Embodiments of the present disclosure provide for generating at least one optimized operational parameter associated with a processing plant, such as an oil refinery. Embodiments of the disclosure utilize a multi-horizon optimization process, for example that generates optimized operational parameter(s) based on at least a long-horizon optimized plan and a short-horizon optimized plan. Some embodiments utilize the multiple horizons to generate the optimized operational parameter(s) via different process(es) based on configuration(s) and/or characteristic(s) of a processing plant. The resulting optimized operational parameter(s) enable operation of the processing plant during the immediate term in a manner that is optimized specifically for the processing plant in its particular configuration.

[Figure 1]