

Abstract Title: Heavy Oil Upgrading Strategies for Improved Refinery Economics

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Tightening MARPOL regulations and the continuous challenge to improve refinery economics are driving refiners to consider converting vacuum residuum into higher value products. Heavy oil conversion strategies are unique to each refiner and not all solutions require substantial investment. Instead, a staged approach is necessary to address market uncertainties. These potential strategies can range from low cost separation technologies to make feed for existing assets or more capital intensive plans for significant conversion of vacuum column bottoms. Honeywell UOP's portfolio of heavy oil conversion technologies can provide a unique solution to fit a refiner's needs. This presentation will discuss potential options to meet tightening MARPOL specifications, as well as improve gasoline and propylene production. Technology solutions such as the integration of an RCD and RFCC unit, Uniflex MC and SDA will be highlighted.