

Enhanced Regulatory Control for Energy Efficient in C3MR Liquefaction Process

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The Propane Precooled Mixed Refrigerant (C3MR) is one of the leading technologies that utilized for processing natural gas into Liquefied Natural Gas (LNG). Liquefaction is the most energy intensive process and for that this part needs most attention on controlling aspect.

In this paper we are trying to propose an improved regulatory control scheme for C3MR process which will give better result on energy efficiency of Main Cryogenic Heat Exchanger where liquefaction takes part.

That purpose will be accomplished by conducting dynamic simulation on C3MR liquefaction process using simulation package of Aspen Hysys® with Peng-Robinson as fluid package.