

### Modeling of AP-X™ Liquefaction Process

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LNG plants face a broad range of process requirement due to a surge in LNG demand in worldwide. As a result, LNG facilities must be designed to meet many challenges. Large capacity has been the chief requirement of LNG plants by world demand. For many years, the propane pre-cooled mixed refrigerant (C3MR) process has remained the dominant liquefaction process. However, to satisfy a incereasing need of a new liquefaction process, the AP-X™ liquefaction process is introduced. The AP-X™ liquefaction process is an enhancement of C3MR system. This enhancement apply the sub-cooled system utilizing the N<sub>2</sub> refrigeration system for larger LNG production capacity. In this presentation, The AP-X™ liquefaction process is simulated and its model is compared with the existing information.

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