

Optimization of process for Offshore Floating liquid natural gas Plants Using Excel VBA

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A natural gas and liquid recovery sequence is proposed for top-side offshore floating liquefied natural gas processing. This proposed Optimizing method has a simple, computing optimizing algorithm using Excel Visual basic Application. The natural gas liquid recovery process added SMR cycle process and Optimizing this process. This work aims to compact of process, so remove heat exchanger and recycle flow and then optimization. depropanizer and debutanizer is integrated by dividing wall column. The results show that the saving energy duty and compact of process. **Acknowledgement** This research was supported by a grant from the Gas Plant R&D Center funded by the Ministry of Land, Transportation and Maritime Affairs (MLTM) of the Korean government.