

Lng Liquefaction Process Selection Alternative

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LNG liquefaction process selection: alternative refrigerants to reduce footprint and cost Oelfke R.H. , Denton R.D. , Miller M.R. ExxonMobil Upstream Research Company. — 13 p. This paper describes recent work at ExxonMobil Upstream Research Company to identify novel refrigerants and processes for production of liquefied natural gas (LNG) in large-scale floating and onshore LNG facilities.

LNG liquefaction process selection: alternative ...

LNG LIQUEFACTION PROCESS SELECTION: ALTERNATIVE REFRIGERANTS TO REDUCE FOOTPRINT AND COST . Russell H. Oelfke . Robert D. Denton. Michael R. Miller . ExxonMobil Upstream Research Company . 1 ABSTRACT This paper describes recent work at ExxonMobil Upstream Research Company to identify novel refrigerants

LNG LIQUEFACTION PROCESS SELECTION: ALTERNATIVE ...

LNG Liquefaction Process Selection: Alternative Refrigerants to Reduce Footprint and Costs Russell H. Oelfke, Robert D. Denton, and Michael R. Miller, ExxonMobil Upstream Research Company; LNG Regasification — Technology Evaluation and Cold Energy Utilisation Randeep Agarwal and Meisam Babaie, Queensland University of

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• Process related accidental hydrocarbon releases (both of refrigerants and partially processed natural gas or LNG) are also considered to be key safety risks. • Control of process related hazards (for instance, mechanical integrity of process equipment, ignition source control systems, and explosion overpressure) require more robust designs and operating systems.

Liquefaction technology selection for offshore FLNG projects

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Process Equipment Handbook For Lng

Liquefaction process selection is a key activity that starts at an early stage of an LNG project. It should be addressed at the conceptual, feasibility and pre-FEED stages of development, since it has such a large impact on the overall profitability of the project.

Liquefaction technology selection for baseload LNG plants

Compared with the liquefaction process, the pyrolysis of biomass usually yields more gases. Hence, low biomass to solvent ratios will enhance the conversion of biomass and produce a high yield of bio-oil. However, too-low biomass to solvent ratios will lower the yield of bio-oil, which may be due to the formation of light fractions being enhanced at high solvent to biomass ratios [49,53]. Water is the important media in the process of biomass liquefaction.

Liquefaction Process - an overview | ScienceDirect Topics

A knowledge-based decision-making method for the selection of mixed refrigerant systems for LNG processes developed by Khan et al (2013) will be applied as an alternative approach in selecting refrigerant compositions. The effect of variations in refrigerant compositions on the process will be investigated.

Natural Gas Liquefaction Processes: Design and ...

Fig. 2 – C3-MR process scheme AP-X method, which is an evolution of C3-MR process to be applied for large liquefaction plants. The process is based on the integration of LNG sub-coolers with nitrogen coolant used according to the C3-MR method, without increasing the size of the main heat exchanger.

LNG R&D for the Liquefaction and Regasification Processes ...

Large scale liquefied natural gas (LNG) plants are often too complex and costly, tying up capital and requiring several years of development before they 're operational. And they 're often located far from the point of use, adding transport time and cost. Small scale LNG plants are a powerful alternative for this growing market.

Liquefaction Plants – Scandinavian Engineering Group

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Liquefied natural gas (LNG) is natural gas (predominantly methane, CH 4, with some mixture of ethane, C 2 H 6) that has been cooled down to liquid form for ease and safety of non-pressurized storage or transport. It takes up about 1/600th the volume of natural gas in the gaseous state (at standard conditions for temperature and pressure). It is odorless, colorless, non-toxic and non-corrosive.

Liquefied natural gas - Wikipedia

The selection of liquefaction technology and refrigerants plays a key role in optimizing process efficiency while minimizing costs in LNG plants. Large baseload LNG export facilities incorporate a precooling refrigeration cycle as a proven means to increase both overall liquefaction energy and cost efficiencies.

LNG plant optimization with ammonia precooling

Feedstock gas then enters the liquefaction unit where it is cooled to between -145 ° C and -163 ° C. Although the type or number of heating cycles and/or refrigerants used may vary based on the technology, the basic process involves passing the gas through aluminium heat exchangers (cold box) and exposure to a compressed refrigerant.

Basic Liquefaction Process - FLNG RUS

brief review of the results and a few pictures of the process are also included. LNG Liquefaction Plant. 2 All of these LNG facilities were designed and built in the mid1970 's to liquefy pipeline quality natural gas, with a CO 2 content of less than 1%. The Liquefied Natural Gas, LNG is then stored for use during the

Liquefied natural gas (LNG) is a commercially attractive phase of the commodity that facilitates the efficient handling and transportation of natural gas around the world. The LNG industry, using technologies proven over decades of development, continues to expand its markets, diversify its supply chains and increase its share of the global natural gas trade. The Handbook of Liquefied Natural Gas is a timely book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore infrastructure to develop and handle resources in more remote and harsher environments. It is the only book of its kind, covering the many aspects of the LNG supply chain from liquefaction to regasification by addressing the LNG industries' fundamentals and markets, as well as detailed engineering and design principles. A unique, well-documented, and forward-thinking work, this reference book provides an ideal platform for scientists, engineers, and other professionals involved in the LNG industry to gain a better understanding of the key basic and advanced topics relevant to LNG projects in operation and/or in planning and development. Highlights the developments in the natural gas liquefaction industries and the challenges in meeting environmental regulations Provides guidelines in utilizing the full potential of LNG assets Offers advices on LNG plant design and operation based on proven practices and design experience Emphasizes technology selection and innovation with focus on a " fit-for-purpose design Updates code and regulation, safety, and security requirements for LNG applications

Fundamentals of Natural Gas Processing explores the natural gas industry from the wellhead to the marketplace. It compiles information from the open literature, meeting proceedings, and experts to accurately depict the state of gas processing technology today and highlight technologies that could become important in the future. This book cov

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Most conventional cryogenic refrigerators and liquefiers operate with pure fluids, the major exception being natural gas liquefiers that use mixed refrigerant processes. The fundamental aspects of mixed refrigerant processes, though very innovative, have not received the due attention in open literature in view of commercial interests. Hundreds of patents exist on different aspects of mixed refrigerant processes. However, it is difficult to piece together the existing information to choose an appropriate process and an optimum composition or a given application. The aim of the book is to teach (a.) the need for refrigerant mixtures, (b.) the type of mixtures that can be used for different refrigeration and liquefaction applications, (c.) the different processes that can be used and (d.) the methods to be adopted for choosing the components of a mixture and their concentration for different applications.