

ITER task T48 (1994) - low-inventory cryogenic distillation tests

Canadian Fusion Fuels Technology Project - Design and Control of the Cryogenic Distillation Process for Purification of Synthetic Natural Gas from Methanation of Coke Oven Gas

Description: -

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Japan -- Commerce -- Bibliography
Japan -- Commerce -- History
Industries -- Japan -- Bibliography
Industries -- Japan -- History
Belgium -- History -- German occupation, 1940-1945
World War, 1939-1945 -- Journalism, Military -- Belgium -- History
Journalism, Military -- Belgium -- History -- 20th century
Isotope separation.
Distillation. ITER task T48 (1994) - low-inventory cryogenic distillation tests
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Tags: #Commissioning #of #water #detritiation #and #cryogenic #distillation #systems #at #TLK #in #view #of #ITER #design

Fuel cycle design for ITER and its extrapolation to DEMO

At the core of the air separation unit there is a system of tightly coupled, multicomponent, high-purity cryogenic distillation columns. The processes description and the status of commissioning of TRENDA facility is presented.

Fuel cycle design for ITER and its extrapolation to DEMO

This provides an additional barrier against ISS tritium releases and should mitigate the memory effects due to process parameter fluctuations in the ISS.

Experiments on water detritiation and cryogenic distillation at TLK; Impact on ITER fuel cycle subsystems interfaces (Journal Article)

Tritiated water is being obtained after long time operation of CANDU reactors, or in case of ITER mainly by the Detritiation System DS. Techno-economic evaluation of the integrated polygeneration system of methanol, power and heat production from coke oven gas. In this entire tritium plant system, extremely high decontamination factor, that is the ratio of the tritium loss to the processing flow rate, is required for fuel economy and minimized tritium emissions, and the system design based on the state-of-the-art technology is expected to satisfy all the requirements without significant technical challenges.

Construction and commissioning of a hydrogen cryogenic distillation system for tritium recovery at ICIT Rm. Valcea

It is designed to remove tritium from tritiated heavy water in each of the existing four Candu units at Wolsong site. The WTRF Wolsong Tritium Removal Facility is under construction now with the completion date of June, 2006 in Korea.

The Unique Challenges of Cryogenic Distillation Column Control for Integrated Coal Gasification Combined Cycle Applications

Renewable and Sustainable Energy Reviews 2017, 74 , 809-823. During abnormal events or accidents, significant amount of liquid hydrogen—deuterium—tritium or helium refrigerant can be spilt inside the cold box or even into the building.

The Unique Challenges of Cryogenic Distillation Column Control for Integrated Coal Gasification Combined Cycle Applications

The decontamination capacity increases by a 2. This is achieved by routing the top protium product from the ISS to a feed point near the bottom end of the WDS Liquid Phase Catalytic Exchange LPCE column.

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