

# 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: -

-  
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  
-  
Praeger special studies  
Praeger Pacific-Basin series in business and economics  
Report (Canadian Fusion Fuels Technology Project) -- G-9504  
CFFTP -- G-9504ITER task T48 (1994) - low-inventory cryogenic distillation tests  
Notes: Includes bibliographical references.  
This edition was published in 1995



Filesize: 64.58 MB

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 TRENTA 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.

## Related Books

- [René Char - qui êtes-vous?](#)
- [Riders against the sky.](#)
- [Speech and language impairment and reading disability in school age children - a seven year follow-up](#)
- [Book of Concord - the confessions of the Evangelical Lutheran Church](#)
- [Reagents in mineral technology](#)