

Issue 3

March



161

Energiewende – Complements to the Mainstream in the Media

View of the Swedish Forsmark site with three boiling water reactors in operation. A sixth of all electricity used in Sweden comes from Forsmark. The plants with a gross electrical capacity of about 3,383 MW produce approximately 20 to 25 TWh annually. (Courtesy: Vattenfall)

Editorial

Money for Nothing? 151
 Money for Nothing? 152

Abstracts | English 156
 Abstracts | German 157

Inside Nuclear with NucNet

China Sets Sights on Exporting
 an Affordable Nuclear Solution 158

NucNet

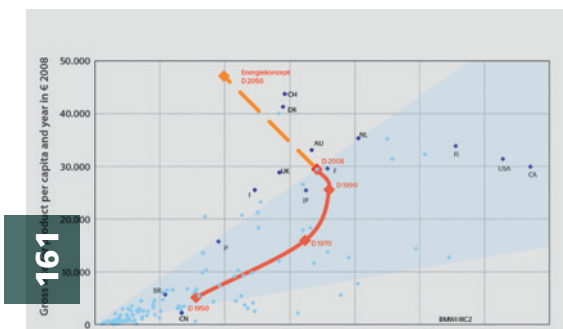
DAtF Notes 159

Calendar 160

Energy Policy, Economy and Law

Energiewende – Complements
 to the Mainstream in the Media 161

Stefan Nießen



Germany's historic gross-internal product evolution versus primary energy consumption.

Nuclear Safeguards in the European Union
 Carried Out by the European Commission – Or:
 The EURATOM Treaty – The Unknown Nature . . . 168
 Kernmaterialüberwachung in der Europäischen
 Union durch die Europäische Kommission
 oder: der EURATOM-Vertrag – das unbekannte
 Wesen? 168

Wolfgang Kilb

Spotlight on Nuclear Law

Harmonisation of Licensing Processes for
 Decommissioning – Options and Limitations . . . 172
 Genehmigungsverfahren für die Stilllegung
 der deutschen Kernkraftwerke: Konvoi oder
 Kakophonie? 172

Christian Raetzke

Environment and Safety

A COCAP Program for the Statistical Analysis of Common Cause Failure Parameters 173

Baehyeuk Kwon and Moosung Jae



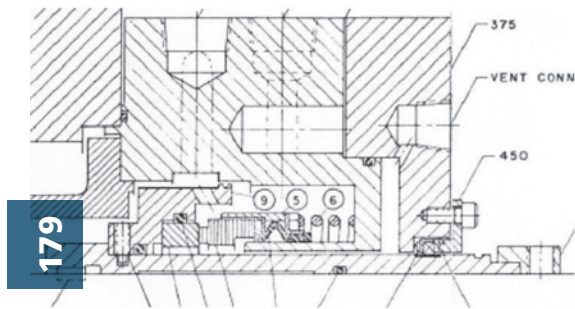
173

Main screen of the Program for the Statistical Analysis of Common Cause Failure Parameters (COCAP).

Operation and New Build

Increasing Nuclear Safety and Operational Reliability by Upgrading the Charging Pump Mechanical Sealing System 179

Gerard van Loenhout, Peter Nilsson and Magnus Jehander



179

The original mechanical seal in chemical volume and control system / HHSI (emergency core cooling function) pumps of Ringhals-2.

Membrane Systems and their Use in Nuclear Power Plants – Treatment of Primary Coolant 189

Pavel Kůs, Šárka Bártová, Martin Skala, Kateřina Vonková, Václav Zach and Roman Kopa



189

Overall view of the reverse osmosis pilot-plant at the Temelin NPP.



193

General view of the spent nuclear fuel pool at FSUE Mayak, Russia.

Decommissioning and Waste Management

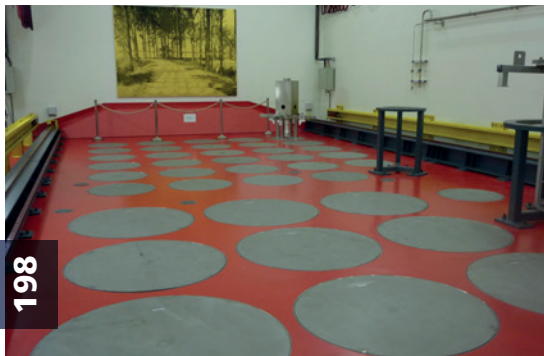
Available Reprocessing and Recycling Services for Research Reactor Spent Nuclear Fuel 193

Sandor Tozser, Frances M. Marshall, Pablo Adelfang, Edward Bradley, Madalina Elena Budu and Mustapha Chiguer

Inter- and Transdisciplinarity as a Precondition for Final Nuclear Waste Disposal 198

Inter- und Transdisziplinarität als Voraussetzung bei der Entsorgung radioaktiver Reststoffe 198

Saleem Chaudry, Sophie Kuppler and Ulrich Smeddinck



198

Storage of spent fuel in the HABOG, The Netherlands.

KIT Competence Center for Decommissioning – Innovation and Promotion of Trainees 202

Kompetenzzentrum Rückbau am KIT – Nachwuchsförderung und Innovationen für den Rückbau 202

Sascha Gentes

KTG Inside 205

News 206

Nuclear Today

Nuclear Nations Explore ‘New Era’ of Possibilities in Trade Talks with Tehran 214

John Shepherd

Imprint 170

AMNT 2016 – Registration Form Insert