

Office for Nuclear Regulation

An agency of HSE

Redgrave Court Merton Road Bootle Merseyside L20 7HS
Tel: 0151 951 4000 www.hse.gov.uk/nuclear

EDF AND AREVA UK EPR GENERIC DESIGN ASSESSMENT
GDA ISSUE
CONTROL AND MINIMISATION OF EX-CORE RADIATION
GI-UKEPR-RC-02 REVISION 0

Technical Area	REACTOR CHEMISTRY		
Related Technical Areas	Radiation Protection Fuel Design Waste and Decommissioning		
GDA Issue Reference	GI-UKEPR-RC-02	GDA Issue Action Reference	GI-UKEPR-RC-02.A1
GDA Issue	EDF and AREVA to demonstrate that ex-core radiation levels in UK EPR are minimised so far as is reasonably practicable and can be controlled.		
GDA Issue Action	<p>EDF and AREVA to provide calculations, or alternative evidence agreed by the regulator, which demonstrate that the control of corrosion products (fuel crud) and other radioactivity (excluding tritium) in safety systems in the UK EPR and outside of the primary reactor cooling circuit are minimised so far as is reasonable practicable and are controlled.</p> <p>The safety systems considered should include all of those inside the Nuclear Island which are routinely expected to handle radioactive materials, including the Spent Fuel Pool, In-containment Refuelling Water Storage Tank and the Residual Heat Removal System.</p> <p>Activation of the reactor vessel itself need not be included in the response.</p> <p>Such evidence should be based upon the expected plant operating procedures, particularly relating to shutdown, head-lift criteria and operation of the boron recycle system and should be compatible with the expected plant limits and conditions.</p> <p>With agreement from the Regulator this action may be completed by alternative means.</p>		