



**of the European Atomic Energy Community (Euratom)
for nuclear research and training activities (2007-2011)**

Coordination and Support Action

ADRIANA

Project title: **ADvanced Reactor Initiative And Network Arrangement**

Project number: **249687**

Project coordinator: **Ustav Jaderneho Vyzkumu Rez A.S., Rez, Czech Republic**

FZD participant: **Institute of Safety Research**

Starting date: **01.02.2010**

Duration (months): **18**

Summary

The coordination action ADRIANA is proposed to setting up the network dedicated to the construction and operation of research infrastructures in support of developments for the European Industrial Initiative for sustainable nuclear fission. The project as the base for the current long-term taking place coordination activities of Euratom under financial support of the European Commission for construction of research infrastructure in the frame of Structural funds of the European Union suggests the program of utilization of built-up facilities for the given purpose.

The project for this purpose defines in detail the new needed research infrastructures, defines and provides legal and financial structures for major refurbishment or upgrading of existing facilities, the construction of new ones and considers the trans-national access to these experimental facilities.

Assurance of long-term reliable and competitive energy resources has been an indispensable request for sustainable development of EU communities and their competition's position in the frame of the worldwide economic development and political influence in the process of global

governance. The project solves the above given objectives for reactor systems and connecting technologies: * Sodium Fast Reactor (SFR) * Lead Fast Reactor (LFR) * Gas Fast Reactor (GFR, including very high temperature technologies) * Instrumentation, diagnostics and experimental devices * Irradiation facilities and hot laboratories * Zero power reactors * Road map of research infrastructures.