

Overview of SARNET deployment and progress

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This presentation summarises the objectives and the development plan of the network and the results obtained after the first 18 months.

Integrating activities have been performed through different vectors: the ASTEC integral computer code for severe accident transient modelling, through development of PSA2 methodologies, through the setting of a structure for definition of evolving R&D priorities and through the development of a web-network of data bases (DATANET) that hosts experimental data. Such activities have been facilitated by the development and deployment of an Advanced Communication Tool (ACT).

Jointly executed research activities have concerned key issues grouped in the Corium, Containment and Source Term areas. For all three jointly executed research activities the main tasks involve selection of available and relevant experiments, synthesis of analyses and interpretation of data from these experiments, and model synthesis and proposals of models for ASTEC.

An online database has been set up within ACT that includes summaries of facilities and data obtained, along with interpretation of results. Similarly, summaries of existing models in the areas concerned have been accumulated. Based on these, a schedule for uploading the data into DATANET (databank) has been established, and a timetable for producing new and improved models for ASTEC.

Concerning spreading of excellence, educational courses covering Severe Accident Analysis Methodology and Level 2 PSA have been set up and will be given in early 2006. A detailed text book on Severe Accident Phenomenology has been designed and agreed amongst SARNET members. A mobility programme for students and young researchers is being developed, some detachments are already completed or are in progress, and examples are quoted.