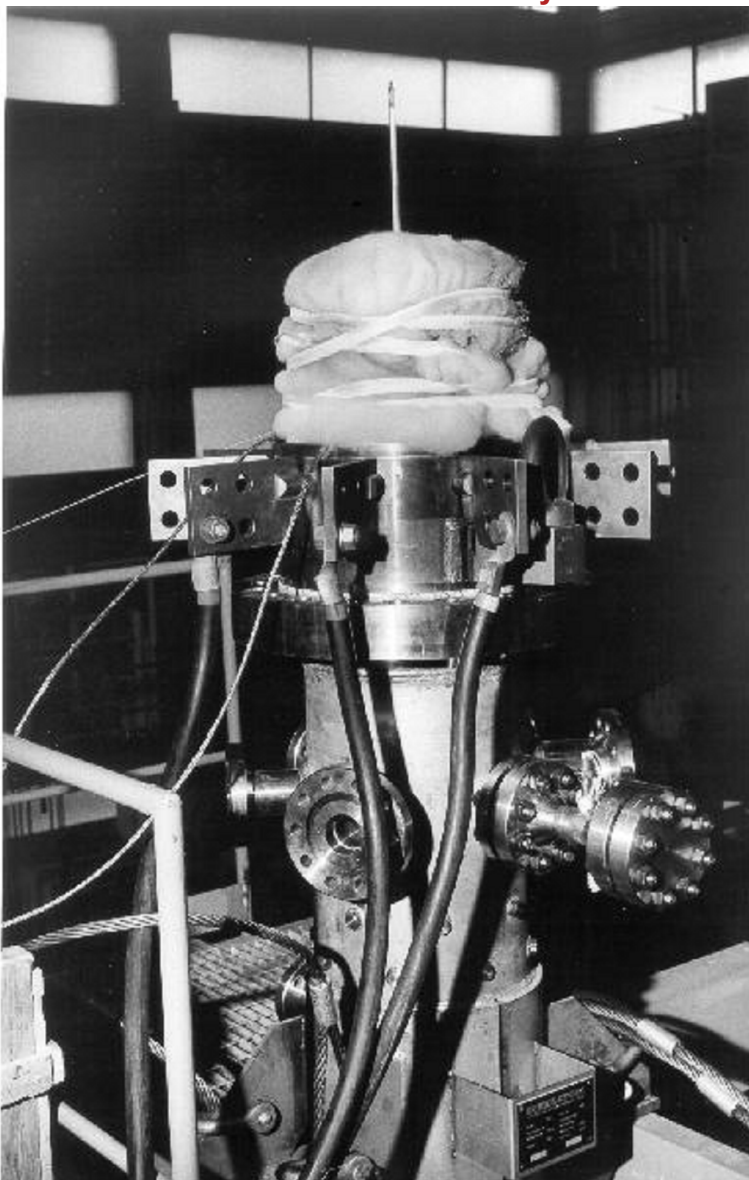


LOBI-Mod2 Test Facility



LOBI (LWR OFF-NORMAL BEHAVIOUR INVESTIGATION)

A Reactor Thermal-Hydraulic Safety Research Programme carried out by the Commission of the European Communities at the Ispra Site of the Joint Research Centre.

Objectives

- Investigation of Basic Phenomenologies governing the thermal-hydraulic response of an Integral System Test Facility for a range of PWR Operational and Accident Conditions.
- Provision of an Experimental Data Base for the Development and Improvement of Analytical Models and the Independent Assessment of Large System Codes used in LWR Safety Analysis

Facility Configurations

The **LOBI-MOD1** test facility configuration was designed to meet the relevant requirements originating from the objectives of the experimental investigations of **Large and Intermediate Break Loss of Coolant Accidents (LOCA)**. A total of 28 tests were performed with this configuration during the period December 1979 to June 1982.

The **LOBI-MOD2** test facility configuration, operating since April 1984, represents an upgraded version designed to meet also all relevant requirements related to the investigation of **Small Break LOCAs and Special Transients**. A total of 42 tests were performed in the period April 84 to June 1991.

- [LOBI Description and Test Matrix](#)

Experimental Programme

A

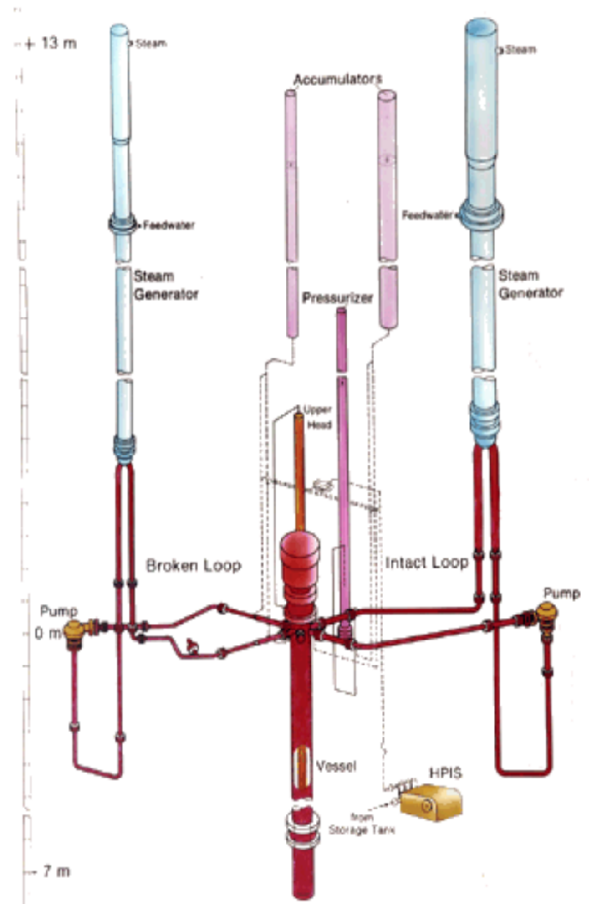
Performed in the Framework of a R&D Contract between the Commission and the Bundesminister für Forschung und Technologie of the Federal Republic of Germany.

B

Performed in the framework of the Commission's Reactor Safety Research Programme with Independent Contributions from Several Industrial and Institutional

Upper plenum of the LOBI Test facility

Organizations of EC Member Countries.



LOBI-Mod2 Primary Cooling System