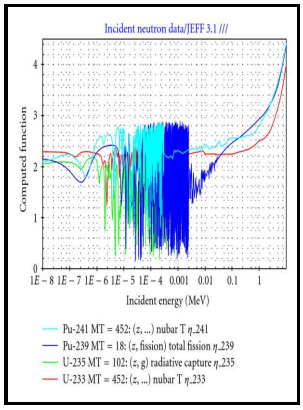
Feasibility design of prestressed concrete pressure vessels for high pressure gas cooled reactors

Australian Atomic Energy Commission, Research Establishment - Formal Opening



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Design criteria for prestressed concrete pressure vessels for High Temperature Reactors

The instrumentation is being designed to monitor the response of the model during prestressing operations, during Structural Integrity and Integrated Leak Rate testing, and during test to failure of the model. The later reactors of this type have prestressed concrete pressure vessels, the earlier ones steel vessels. A program of follow-up study is outlined to provide backup experimental data needed for support of this conclusion.

Feasibility study of prestressed concrete pressure vessels for coal gasifiers (Conference)

The principal structural material of the pressure vessel 10 is concrete 11, which may be reinforced by non-prestressed rods which are not shown, since they are not always essential and since they might obscure the basic concept, although they are preferably present, being emplaced according to normal practice. Due to prestressing and the effect of the internal pressure and temperature, cracking is prevented from penetrating more deeply into the vessel wall.

Conceptual design of a prestressed concrete reactor pressure vessel

Suitable techniques are being developed but the detailed design, planning and proving the complete system will be a substantial project.

SURVEY OF THE MATERIALS AND DESIGN OF INSULATION FOR PRESTRESSED

In preparation for decommissioning, some postoperational activities were undertaken by HIFRENSA, such as postoperational clean out, conditioning of spent fuel and treatment of operational wastes, including the graphite components from fuel elements.

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