

major parts of the system design have been completed [3]. A pre-application review by the US NRC has been initiated in the fall of 2007, and a formal licensing application is scheduled for 2010. Different from it, both the SSTAR and STAR-LM are at a pre-conceptual stage. It should be noted that small size and capacity of the fast reactors considered in [3] are, first-of-all, conditioned by the requirement of operation without on-site refuelling [2] and not by the a priori considerations of achieving a somewhat higher degree of passive response in accidents.



FIG. 2. General view of the SSTAR layout.

Design features of the 4S-LMR and the SSTAR and the STAR-LM contributing to Level 1 of defence in depth, "Prevention of abnormal operation and failure", are summarized in Table 1.

TABLE 1. DESIGN FEATURES OF SODIUM COOLED AND LEAD COOLED FAST SMRS CONTRIBUTING TO LEVEL 1 OF DEFENCE IN DEPTH

| # | DESIGN FEATURE | WHAT IS ACHIEVED | SMR DESIGN |
|---|--|---|------------------------|
| 1 | Low-pressure primary coolant system | Low non-nuclear energy stored in the primary coolant system – elimination of a potential of release of this energy | 4S-LMR, SSTAR, STAR-LM |
| 2 | Use of metallic fuel with high thermal conductivity (relatively low temperatures) | High margin to fuel failure | 4S-LMR |
| 3 | Use of oxide fuel with high thermal conductivity (relatively low temperatures) | High margin to fuel failure | SSTAR, STAR-LM |
| 4 | Relatively low linear heat rate of fuel | Higher margin to fuel failure | 4S-LMR |
| 5 | Power control via pump flow rate in the power circuit, with no control rods in the core | Elimination of an accident with control rod ejection | 4S-LMR |
| 6 | Large negative feedbacks from fast-spectrum core plus natural convection of the coolant in all modes, enabling passive load following and "passive shutdown" | Essential prevention or de-rating of the initiating events resulting from malfunctioning of the systems or components, or operator actions that would otherwise need to be considered as sources of failure | SSTAR, STAR-LM |

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Jianjun Gao



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