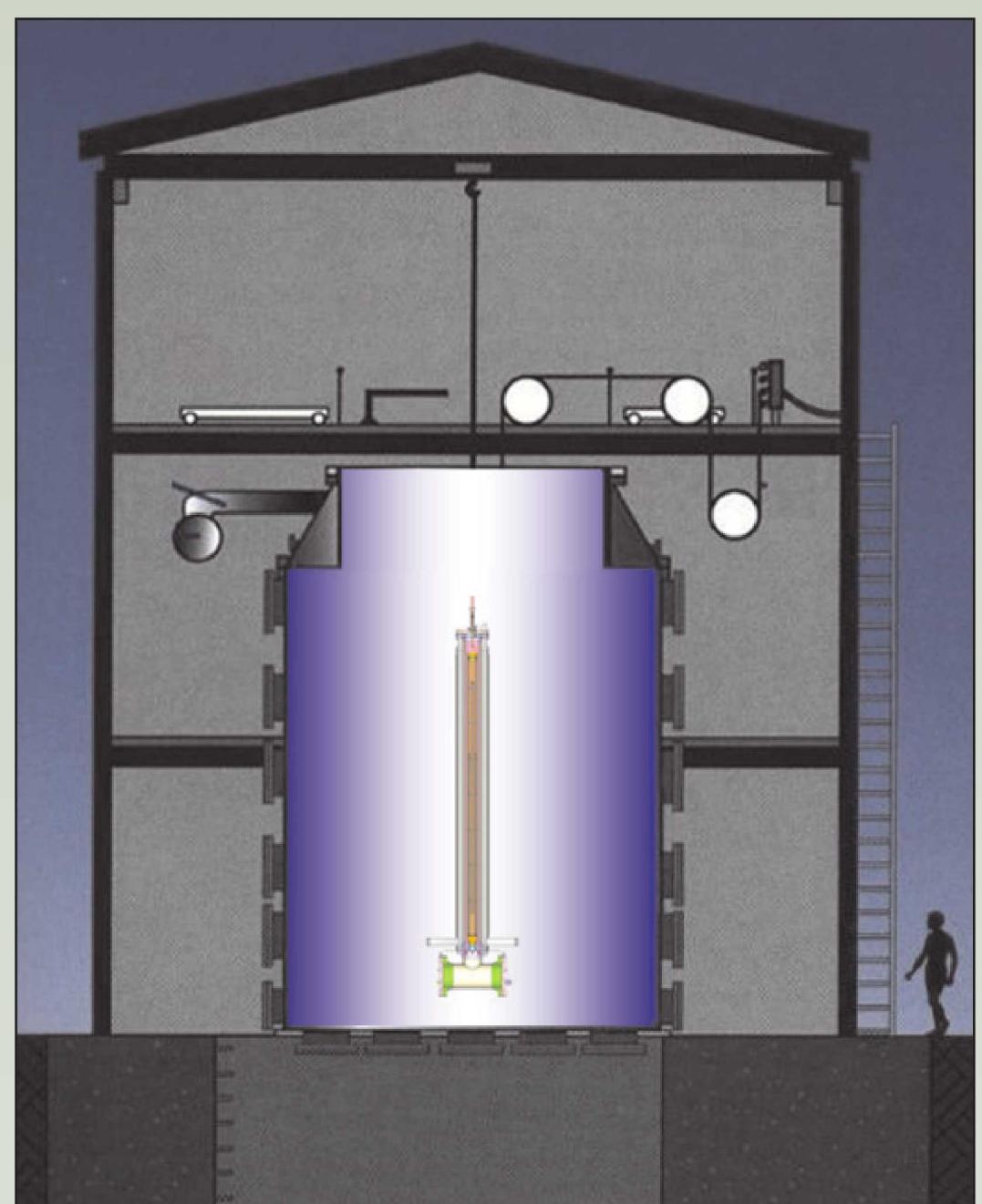


Cylindrical Boiling Vessel (CYBL)



CYBL is a stainless steel reactor-scale facility designed for testing the flooded-cavity design for reactor accident termination. The reactor vessel cavity configuration is replicated by a tank within a tank design, the outer vessel measuring 5.1 m inner diameter and 8.4 m high, 316L. There are 51 viewing windows, ranging in size from 0.3 m to 0.6 m in diameter, on the side and bottom of the outer vessel.

KEY ACTIVITIES

Customers

- United States Nuclear Regulatory Commission (USNRC)
- United States Department Of Energy (USDOE)
- Organization for Economic Co-operation and Development (OECD)

Capabilities

Thermal hydraulic investigations and fire ignition associated with safety cases for the evaluation of spent fuel in an air environment resulting from loss of water in a spent fuel pool. Thermal-hydraulic behavior of above and underground dry cask storage systems for spent nuclear fuel, using full length, highly prototypic fuel assemblies and a flexible data acquisition system.

