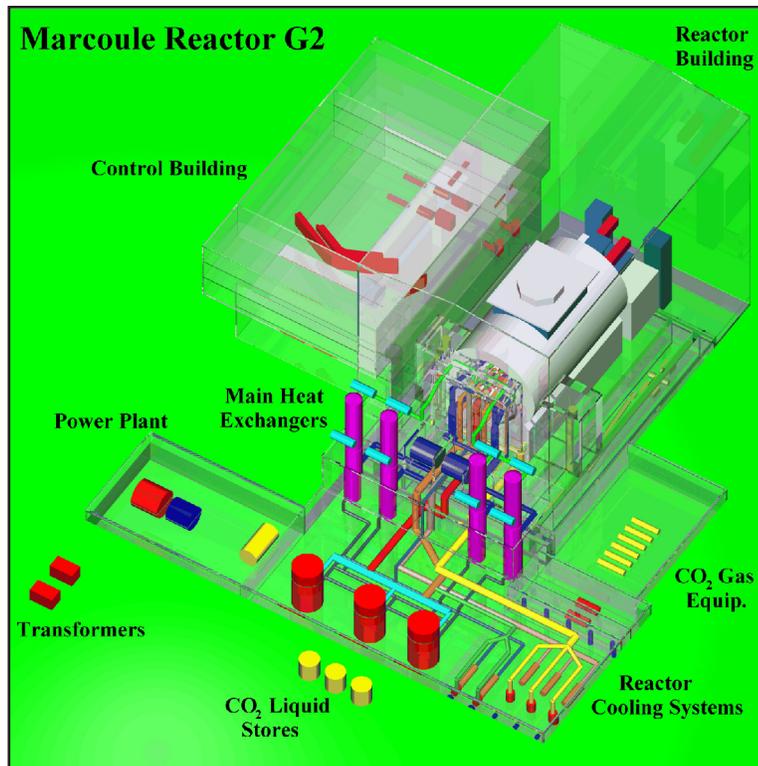


## Industrial/Nuclear Facility Vulnerability — Visual Interactive Site Analysis Code (VISAC)

VISAC is a Java-based expert system that provides mission planners with a coordinated capability to predict and analyze the outcomes of different accidents/incidents at various nuclear and industrial facilities. The incidents can range from simple individual equipment sabotage to complex sorties that utilize a range of military weapons, simulated truck or car bombs, or satchel charges. The target facility is generated by either customizing existing 3-D CAD models for near real-time analysis or creating a new model from scratch. Using event/fault tree methodology, VISAC provides the probability of facility kill, the probability of undesirable collateral effects (chemical or radiological releases), and an estimate of facility down time. VISAC is supplied with a library of models that can be customized by the user in both geometry and logic to approximate a number of facilities of interest.



*Graphical Representation of a VISAC Facility Model*



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