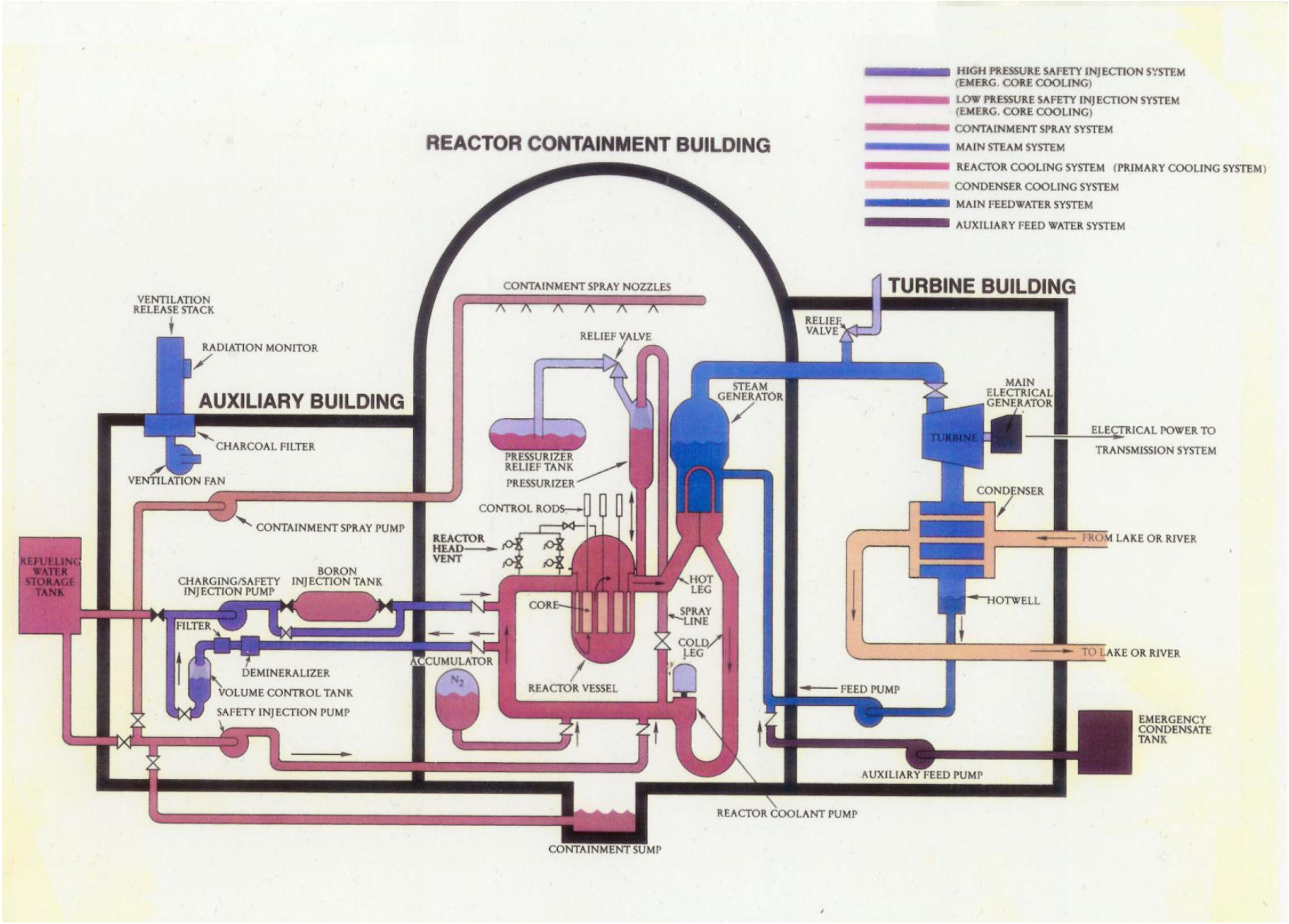

During tests of the turbine valves (the sideways “bow-tie” in the blue line from the steam generator to the turbine, the operators manually tripped the reactor at 11:46 am when both of the feedwater pumps (the blue circle labeled ‘feed pump’ between the hotwell and the steam generator) unexpectedly stopped running. The feedwater pumps are powered by steam – the turbine valve testing apparently closed the valves that supply steam to the feedwater pumps. After the reactor trip, the auxiliary feedwater pumps (maroon circle slightly below and to the right of the feedwater pump) provided water to the steam generators. For a short while after the reactor trip, the atmospheric steam dump valves (labeled ‘Relief Valve’ off the blue line from the steam generator to the turbine) opened to relieve pressure. Their opening is typical for a reactor trip from full power.