

## Czechia

According to the latest report available to ENSREG, all measures outlined in the Czech Action Plan were completed by the end of 2018, except for Action 50. This action, aimed at implementing measures to maintain long-term containment integrity in the Temelín NPP, is scheduled to be completed by the end of 2024. ČEZ, a. s., has decided to supplement further solutions, specifically by implementing an additional independent system capable of terminating severe accident progression in its early phase. This system aims to prevent reactor pressure vessel failure and provide alternative long-term containment heat removal using a mobile pumping station driven by a diesel engine. Additionally, ČEZ, a. s., is implementing a containment filtered venting system to prevent containment overpressure failure. The implementation of Action 50 is currently on schedule, setting the deadline for completion of design modifications at the end of 2024. The design modifications under Action 50 have been reviewed and approved by the regulatory body. Moreover, the regulatory body is in continuous contact with the operator to supervise the implementation of the action and the remaining design modifications.

The remaining design modifications under Action 50 include the implementation of a system of filtered containment venting and a mobile pumping station. In both cases, preparatory work was carried out on the units in 2023. Manufacturing of the major components (i.e., filters, pumps, engines) has been completed. Deliveries of pipe parts and the manufacture of fittings and membranes are ongoing. The final implementation of the new systems will take place during refueling outages in 2024.

Additionally, some actions in the Czech Action Plan, such as regular assessment of state-of-the-art severe accident measures and procedures, safety culture, emergency plans, etc., communication with stakeholders, and international cooperation, are of a continuous and ongoing nature and therefore have no final date of completion.

The core measures in the Czech Action Plan were proposed by the license holder ČEZ, a. s., and accepted by SÚJB (State Office for Nuclear Safety) as the nuclear safety regulatory authority. Both the Dukovany NPP and Temelín NPP developed a Safety Increasing Program (SIP) based on conclusions from the National Stress Tests Report, lessons learned from EU stress tests peer review exercises, and previous periodic safety review findings. This initiative is in line with the principle of the licensee's prime responsibility for safety defined in Czech law. After regulatory review, the licensee's list has been supplemented by measures/actions requested by SÚJB. This Action Plan represents the complete set of measures (as of December 31, 2012) to strengthen the safety of Czech nuclear power plants in response to the Fukushima nuclear power plant accident. Based on article 17 of the Atomic Act in force at that time, this final version of the Action Plan has been transferred to the licensee ČEZ, a. s., via a letter from SÚJB Chairperson, along with a description of the procedure being applied for regulatory oversight of its implementation. In particular, the implementation of this Action Plan will be continuously monitored through scheduled inspections. If needed, new measures will be included, or modifications to already existing measures will be made in accordance with the principles mentioned in the previous paragraph. Both the Czech Action Plan and the conclusions of SÚJB inspections are published on the SÚJB website.