



NPP KRŠKO SEVERE ACCIDENT MANAGEMENT GUIDELINES IMPLEMENTATION

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Abstract

Severe Accident Management is a framework to identify and implement the Emergency Response Capabilities that can be used to prevent or mitigate severe accidents and their consequences. The USA NRC has indicated that the development of a licensee plant specific accident management program will be required in order to close out the severe accident regulatory issue (Ref. SECY-88-147). Generic Letter 88-20 ties the Accident management Program to IPE for each plant. The SECY-89-012 defines those actions taken during the course of an accident by the plant operating and technical staff to: 1) prevent core damage, 2) terminate the progress of core damage if it begins and retain the core within the reactor vessel, 3) maintain containment integrity as long as possible, and 4) minimize offsite releases.

The subject of this paper is to document the severe accident management activities, which resulted in a plant specific Severe Accident Management Guidelines implementation. They have been developed based on the Krško IPE (Individual Plant Examination) insights, Generic WOG SAMGs (Westinghouse Owners Group Severe Accident Management Guidances) and plant specific documents developed within this effort. Among the required plant specific actions the following are the most important ones:

- Identification and documentation of those Krško plant specific severe accident management features (which also resulted from the IPE investigations).
- The development of the Krško plant specific background documents (“Severe Accident Plant Specific Strategies” and “SAMG Setpoint Calculation”).

Also, paper discusses effort done in the areas of NPP Krško SAMG review (internal and external), validation on Krško Full Scope Simulator (Severe Accident sequences are simulated by MAAP4 in real time) and world 1st IAEA Review of Accident Management Programmes (RAMP).

Key words

NPP Krško, severe accidents, SAMG, validation, simulator