

*Answers to Questions and Comments
Raised by Ukraine
On the
National Report of the Czech Republic*



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UKRAINE 1: What difficulties are existing at the elaboration and implementation of the symptom-oriented emergency instructions?

During the development and verification and validation process and due to subsequent implementation of the Emergency Operational Procedure (EOP) many problems appeared that must be addressed. Among the most vital of them the following can be included:

- a) New philosophy of approach to addressing the emergency conditions from utilization of the regulations itself. This has been sorted out by commitment of large number of operators to the process of EOP development, verification, and validation already and then by providing them with a long-term systematic training at the simulator. Currently, prior to EOP introduction, the control operating personnel is taking their re-qualification examinations.
- b) Technical problems:
 - for better utilization of all EOP potentials it was convenient to extend the existing instrumentation to include a variety of new measured values (wide-band measurement of pressure registration in the hermetic zone (HZ), level monitoring in the HZ, extension of measured temperature scale at the HZ output up to 1000°C, etc.)
 - Addition of a „Pressuriser Relief Valve“
 - Reactor emergency venting
 - Modification of nitrogen pressure in the HZ
 - Modification and addition of some reactor protections and ESFAS,
 - Confirmation of the requirement to establish the „Technical Support Center“
- c) A necessity has appeared to establish a new post within shift, the one of safety engineer, mainly for independent control of critical safety functions“
- d) A necessity to order a large number of analyses (thermohydraulic and strength in nature)
- e) Integration of the relationships resulting from establishment of a new EOP into the system of other operational documentation (like the regulations for emergency conditions which must be redone, PPDU Emergency Planing documentation, etc.)
- f) A necessity to prepare a „Syllabus“ for the regulation, which will explain all the activities of the MCR personnel and give the theory of all individual emergency conditions in their course.
- g) It has been necessary to explain the origin of all used parameters - new approach to QA to EOP creation in line with international recommendations
- h) Large number of highly competent personnel demanded, as well as related training.