

# Protective measures based on the state of reactor and source term predicted (ESTE tool)

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Approach to the source term prediction and protective measures recommendation strictly based on the state of reactor systems identified from technological and radiological parameters or identified by expert knowledge is presented. Approach is applied in decision support system ESTE which is implemented and running for many years (24/7) at the emergency response centers of specific nuclear power plants and governmental nuclear crisis centers. The approach applied and the whole system is by design prepared to response to the multiunit and multisite nuclear accidents.

DSS ESTE is implemented at:

- crisis centers of NPPs  
Bohunice (Slovakia, 2 reactors of PWR VVER-440), Mochovce (Slovakia, 2 reactors of PWR VVER-440), Kozloduy (Bulgaria, 2 reactors of PWR VVER-1000)
- crisis centers on governmental level  
State Office for Nuclear Safety of Czech Republic, Crisis Centre of Austrian Ministry of Environment and Crisis Centre of Bulgarian Nuclear Regulatory Authority.

## Approach of ESTE

