



## **Selected approaches to determining the purpose of emergency planning zones**

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One of the major accident hazards (hereinafter referred to as "MAH") tools to determine the range of effects of a major accident and consequent protection of the public is the determination of the emergency planning zone (hereinafter referred to as "zone"). In the Czech Republic, the determination of the zone is regulated by the Decree No. 103/2006 Coll. laying down the principles for determination of the emergency planning zone and the extent and manner of elaborating the external emergency plan (hereinafter referred to as "Decree") 3. The Decree is based on the principles of the IAEA-TECDOC-727 method – Manual for the Classification and Prioritization of Risks Due to Major Accidents in Process and Related Industries (hereinafter referred to as "method" and "manual", respectively)3. In the manual, it is pointed out that the method used is not suitable for making emergency plans for special situations (industrial activities in an inhabited area). Nonetheless, its principles and procedures are still used for such purposes in the Czech Republic.

The expert scientific community dealing with MAH issues in the Czech Republic, however, realizes that the procedure of the zone boundary delineation should be modified to reflect up-to-date knowledge in protection of the public and its enhancement.

Therefore, the OPTIZON Project (Optimization of the Emergency Planning Zone Designation and Elaboration of Emergency Plans Based on Threatening Effects of Dangerous Chemical Substances at Operational Accidents with Respect to Inhabitant Protection Enhancement) was developed and approved for the Program of Security Research of the Czech Republic 2010 – 2015 (BV II/2-VS). One of the main project's objectives is to define clearly the purpose of the zone because at present it is not quite apparent.

From the general view, this step may seem insignificant or trivial, but the reverse is true. It represents one of the most important stages in seeking the approach to the zone designation as it gives guidance to find the required goal. The purpose of the zone not only describes and defines the issue and its context, but also refers to subsequent steps.