



## **Management of Safety and Safety Culture at the NPPs of Ukraine**

**Vladimir Koltakov**  
Ukraine

(Synopsis of the report)

**Introduction.** Contains general aspects of safety and safety culture. The brief description of operational characteristics and basic indexes of atomic power plants at the Ukraine are represented. The information referring to structure of NPP's of Operation organization license-holder, safety responsibility of both Regulatory and Utility Bodies also is given.

The main part of the report includes seven sections:

**1. "Practical application of safety management models"** In the first section of the report is shown principle scheme's model of the operational safety management NPP's at the Ukraine. The basic results of changes in nuclear power branch management and its impact to safety condition are presented.

**2. "Perspective on the relationship between safety management and safety culture"** The information about role safety culture at safety management area and influence safety culture basic features to the effectiveness of safety management is given at this section. The basic elements and characteristics of a perspective interaction of those two aspects: - safety management and safety culture inhering of an atomic power branch structures at the Ukraine are represented. Development of Performance Indicators System.

**3. "The role of leadership in achieving high standards of safety"** Leadership's role in the progress of safety and safety culture level at the NPP's of Ukraine is shown on an example of relations NPP's staff to specialist of experience – "production manager". Role of leadership at the state body and operation organization levels for achievement high safety standards in the nuclear power also is discussed. The information about leadership's role in management of safety and reliability improvement programs are presented.

**4. "Current and future challengers that impact on safety culture and safety management (e.g. the impact of competition, changing, economic and political circumstances, workforce demographics, etc.)"** The important current economic and political problems bound with management of nuclear power branch, their analysis and impact to safety and safety culture management in a point of view of workforce demography are also described at fourth sections. The brief results of competition between Ukrainian NPPs on the basis operation indexes that were developed by USA INPO are given.

**5. "Key lessons learned from major events"** Results of the root cause analysis of three events that have occurred at the NPPs of Zaporozhye, South-Ukraine, Rovno and Khmelnytsky and brief results of an experience performances extracted from an estimation of these events are given at the fifth section.

**6. “Practical applications of safety culture concepts (e.g. learning organizations, training staff communications, etc.)”** The results of an improvement operation organizational process at the Ukrainian NPP’s units on the basis of the experience study and analysis obtained at visiting foreign NPPs and examples from a point of view safety culture on interaction of the management and operation personnel at all hierarchies levels are considered.

**7. “Advance in human performance”** The information on advance in human performance is shown on examples of the operational and repair personnel work during reactor installation control and repair work. The results of an estimation of operation safety level, safety culture state both of the administrative and operative personnel at the Ukrainian NPPs are given. Some of the main pending safety and safety culture problems that is necessary to execute on the proximate perspective are cited.