



## **Commemorating the 25-th anniversary of the Federal Budgetary Enterprise «Scientific and Engineering Centre for Nuclear and Radiation Safety»**

Scientific and Engineering Center on safety in nuclear power (nowadays - The Federal Budgetary Enterprise «Scientific and Engineering Center for Nuclear and Radiation Safety», SEC NRS) was created under the Resolution №288 dated February 23, 1987 of the USSR Council of Ministers and the Order №58 dated May 12, 1987 of Gosatomenergondzor of the USSR. This Center was founded as a scientific and research institute in order to assist Gosatomenergondzor of the USSR in scientific area due to the need of specialized scientific support of the State nuclear supervisory authority after Chernobyl NPP accident.

Formation and strengthening of SEC NRS have been always in parallel with all changes of functions faced by State nuclear regulatory authority. This process has been conditioned by improvement of activity effectiveness of Federal Environmental, Industrial and Nuclear Supervisory Service of Russia. Nowadays SEC NRS is involved into work concerned with all nuclear energy facilities covered by The Federal Law “On the Use of Atomic Energy”.

Management of elaboration and development of normative documents regulating nuclear and radiation safety is of the first-priority activity of SEC NRS. The national system of normative legislative and engineering documents/ Acts in the sphere of nuclear energy use is being created and this is a set of several hundred documents of different status and orientation/application. Its systematic updating is established with the involvement of broad spectrum of Rostekhnadzor and other competent authorities' specialists.

SEC NRS is entrusted to perform safety review of nuclear facilities and/or types of activities within Rostekhnadzor license issuing. The highest level experts from Rostekhnadzor and other authorities are participating in such review realization.

Certification of software applied for substantiation of nuclear and radiation safety is a very important branch of SEC NRS activity. There is a Council for Certification within SEC NRS which includes 9 sections corresponding to scientific direction of the processes under examination: nuclear and physics, thermal hydraulic, strength, etc. Specialists from leading enterprises of the nuclear industry performing calculation research of nuclear energy facilities are involved into work of this Council.

R&D works of SEC NRS are the scientific basis for all others types of activities aimed at scientific and engineering support. These works are directed at creation and justification of criterion and principles of nuclear and radiation safety applied in regulatory/normative documentation as well as in the course of licensing, review implementation and safety supervision. Such specific scientific work includes checking, development and improvement of methodologies, software and data bases used for regulation of nuclear and radiation safety.

All works performed by SEC NRS are based on close examination of national and international experience of nuclear facilities designing, operation, the achieved and modern level of science and technology, approaches of review and safety supervision realization. International cooperation is directed at perfection of the process of normative documents development, R&D realization aimed at substantiation of principles and criteria of nuclear and radiation safety, its assessment methods and upgrade of personnel qualification level.

Activity of SEC NRS is close interaction with SC “Rosatom” organizations and its structural subdivisions in implementation of the Federal Target Programs, international cooperation, public relations and its informing and economic contracts, etc.

Along with implementation of the main tasks, SEC NRS is involved into training of scientific manpower. The Center organizes conferences and workshops, updates the necessary data bases, publishes and distributes regulatory documentation of Rostekhnadzor in the sphere of nuclear and radiation safety. SEC NRS issues “Nuclear and Radiation Safety”, which is an official journal of Federal Environmental, Industrial and Nuclear Supervision Service of Russia.

# 1987-2012