

DEVELOPMENT OF NUCLEAR EDUCATION AND SPECIALISTS TRAINING IN THE REPUBLIC OF KAZAKHSTAN

K. NAMAZKULOVA

Kazakhstan Center of Nuclear Technology Safety, Almaty, Republic of Kazakhstan

E-mail address of main author: inis@atom.almaty.kz

The problem of nuclear education and personnel training for the Kazakhstan nuclear-industrial complex is a very important issue. Earlier the nuclear physicists and engineers for Kazakhstan were generally qualifying in the leading institutes of the Russian Federation. After the USSR collapse in the independent Republic of Kazakhstan a number of new nuclear subdivisions at the existing institutes and appropriate laboratories in the different regions of the country were implemented. For instant, for nuclear engineers training the new curricula – Nuclear Reactors and Power Facilities - was created by the Shakarim Semipalatinsk State University. On the base of the L.N. Gumilev Eurasian National University the Astana Branch of the Institute of Nuclear Physics was organized. The purpose of this affiliate is conducting of fundamental and applied studies on solid state physics, nuclear physics, radiation environmental problems and knowledge-intensive technologies. As well as the proposal before of the Government of Kazakhstan about implementation the specialized faculty for professional training of specialists for nuclear industry by the K. Satpaev Kazakh National Technical University was initiated.

Besides the two sub-divisions of the Institute of Nuclear Physics are creating in the two intensively developing areas of the Republic - West-and East-Kazakhstan regions. As well as the two laboratories of this institute were opened in the places where the nuclear weapon tests were conducted - former Semipalatinsk test site and the Azgir test site- that will be used for personnel training.

Republic possesses of a number nuclear facility (One nuclear power reactor - BN-350 (now under decommissioning), four research reactors and a few accelerating units) that widely using in nuclear science development as a whole and high-qualified researchers training in particular. For many years these facilities playing a role of the integrating factor between science, education and nuclear technology.

One of the examples of integration of science with education in Kazakhstan is implementation of the Inter-disciplinary Research Complex at the L.N. Gumilev Eurasian National University. The core facility of the complex will be the DC-60 cyclotron of heavy ions. It is suggested that the facility will be used for development of nuclear technologies, science and knowledge-intensive business and for training of students and postgraduates. Design of the DC-60 cyclotron is fulfilled in co-operation of Kazakhstani and Russian scientists and it will be put into operation in 2006..