IN THE SCIENTIFIC-TECHNICAL SOCIETY OF THE POWER AND ELECTRICAL ENGINEERING INDUSTRY

THE 8TH PLENUM OF THE CENTRAL BOARD

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On June 1 and 2, 1976, the 8th Plenum of the Central Board of the Scientific-Technical Society of the Power and Electrical Engineering Industry (NTOÉîÉ)ÉÉ, devoted to problems of the implementing the resolutions of the 25th Congress of the CPSU, was held in the city of Alma-Ata. The Plenum was attended by representatives from all organizations of the Society; the delegations from the eastern regions of the nation were especially impressive. A report on the tasks of the Society was presented by N. N. Kovalev, Chairman of the Board, who pointed out the important work of the organizations of the NTOÉîÉÉÉÉ in selecting and generalizing the proposals of the Society members, both in the basic directions of the development of the national economy during the 10th Five-Year Plan and in power problems.

After having generalized the proposals of the republican, territorial, and regional organizations of the Society, as well as of the Central Board sections, the Presidium of the Board drew up a complex of measures. Among these, mention may be made of the ensuring of wide participation of the most active members in study and propaganda in favor of the resolutions of the 25th Congress of the CPSU, and in the holding of plenums and meetings of the most active members of the republican, territorial, and regional boards for discussion of the tasks raised. It was resolved to announce and hold annual competitions for best work in the development and introduction of new techniques; upgrading of the quality, economy, and reliability of equipment and products; scientific-technical problems connected with operation of 750-kV transmission lines and development of dc 1500-kV transmission lines, as well as with the forming of the Unified Power System of the USSR; development of hydropower during the 10th Five-Year Plan and protection of the water and land resources; solution of scientific-technical problems connected with the construction of the Sayano-Shushenskoe hydroelectric plant; construction and operation of nuclear power plants; electrification of agriculture in regions with intense irrigated farming; improvement of power construction; development and introduction into the national economy of highly efficient heliotechnical installations for power, water, and heat supply to autonomous consumers; development of new types of electrical equipment, using superconductivity phenomena; application of secondary power resources for fuel-energy purposes and power construction; and improvement of the structure of the new generating capacities.

It was resolved to devote special attention to scientific-technical assistance to the Society boards in the study of the problems connected with timely commissioning and quick mastering of the power and electrical engineering projects constructed during 1976-1980, and in particular with the successful completion of the tasks pertaining to the design, development of equipment, and construction of the Sayano-Shushenskoe hydroelectric plant. It is planned to hold jointly with the regional boards located in the zone of the Baikal-Amur Railroad an out-of-headquarters session of the Presidium on tasks of the NTOÉîÉÉ in the solution of problems connected with the construction of that railroad. It was resolved also to announce and hold every year, jointly with the corresponding ministries, an All-Union review of the implementation of new-technology plans; it is intended to carry out a large volume of work in preparing recommendations of the All-Union Scientific-Technical Society (VSNTO) on problems of the mechanization of manual and physically heavy labor, improvement of the structure of the branch scientific-technical societies, and improvement of the effectiveness of the international relations of the Scientific-Technical Society. It is planned to arrange for regular publication in the scientific-technical journals of material on the participation of the scientific-technical community in the carrying out of the resolutions of the 25th Congress of the CPSU and on the development of scientific-technical progress in the aspects of quality, reliability, and efficiency of power installations.

After having described the most important of the above-mentioned measures of the plan, the reporter focused special attention on the complex of problems connected with the uplifting of the level of organization of work in all structural links of the NTOÉîÉÉÉÉ. The participants who discussed N. N. Kovalev's report recounted the activities of their organizations in carrying out the recommendations of the scientific-technical community and of the measures prepared for implementing the resolutions of the 25th Congress of the CPSU.

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The Chairman of the Section of Hydropower and Water Management and Assistant Editor-in-Chief of the journal Gidrotekhnicheskoe Stroitel'stvo, M. F. Skladnev, described the work of the hydropower community during the 9th Five-Year Plan. During that period, many All-Union seminars and conferences were held on topical aspects of the improvement of scientific investigations, design and construction of hydroelectric plants, and multipurpose reservoirs. The successful implementation of a major part of the Society's recommendations has contributed to the introduction of scientific and technical achievements in the processes of design, construction, and operation of hydropower developments.

The Society took a most active part in the origination of a highly effective and promising method of creative cooperation on the basis of the conclusion of the multipurpose agreement for socialist competition among 28 enterprises and organizations of Leningrad for the construction of the Sayano-Shushenskoe hydroelectric plant — an initiative which was approved by the Central Committee of the CPSU and which has received wide development in the solution of other important national-economy problems, such as the fabrication of a 1.2-million-kW power unit for the Kostroma State Regional Electric Plant, construction of the Balkal-Amur Railroad, and creation of the Ust'-Illim production-territorial complex. All these examples of work carried out by the scientific-technical society during the 9th Five-Year Plan are indicative of the great possibilities and reserves which it is necessary to use in order to solve the problems faced by hydropower specialists during the 10th Five-Year Plan.

M. F. Skladnev pointed out that the complex of tasks determined by the resolutions of the 25th Congress of the CPSU for improving the quality and efficiency in construction and operation will be comprehensively examined in December 1976 at the All-Union Conference on "Hydropower in the 10th Five-Year Plan and Protection of the Water Resources," as well as during the process of carrying out scientific-research work on the basic scientific-technical problems included in the plan for hydropower development of the State Committee on Science and Technology. In the Plenum's resolution it was stated that the 25th Congress of the CPSU raised the task of promoting in every possible way the creative activities of the workers, innovations, the movement of inventors and rationalizers, and improvement of the activities of the scientific-technical societies.

It was recommended to the boards and councils of the local NTO-organisations to develop the relation between science and production and to unify the efforts of the scientists and the production workers in order to solve topical scientific-technical problems pertaining to the quick application of the achievements of science to production. The Plenum considered it necessary to popularize the experience with conclusion of agreements for creative cooperation among local NTO organizations of the enterprises, associations, scientific-research institutes, and design organizations for creation of multipurpose creative squads, holding of joint scientific-technical conferences, meetings, competitions, etc.

The Plenum examined also the problems relating to the development of the Kansko-Achinsk and E'kibastuz fuel-energy complexes. Reports on these problems were presented by A. A. Beschinski, Assistant Director of the Energoset'proekt Institute and Member of the journal Gidrotekhnicheskoe Stroitel'stvo T. I. Baturin, Minister of Power and Electrification of the Kazak SSR V. M. Zykov, Manager of a VNIIKTE Branch; and L. P. Berkovskii, Assistant Chief of the Department of Long-Term Development of the RÉU of the Krasnoeenergo.

In the report presented by A. A. Beschinski, the basic criteria for optimization of the fuel-energy balance of the USSR in the light of the resolutions of the 25th Congress of the CPSU were formulated. He substantiated the need for an integrated solution of the problems of power supply to the European part of the USSR on the basis of the fuel-energy resources of Siberia and Kazakhstan. The report presented by T. I. Baturin dealt with the problems arising in connection with the creation of the E'kibastuz fuel-energy complex, contained a substantiation of the need for developing, along with E'kibastuz complex, the Malakhobensk fuel deposit, and pointed out the deficiencies in organizing construction of the first large electric plant of the E'kibastuz fuel-energy complex. In their reports, V. M. Zykov and L. P. Berkovskii discussed other problems arising in connection with the creation of the E'kibastuz and Kansko-Achinsk fuel-energy complexes.

During discussion of these reports, it was pointed out that it is necessary to perform a careful analysis of the basic information about the dynamics of the technoeconomic indices on the basis of which the studies characterizing the effectiveness of the adopted solutions are made. Attention was focused on the insufficient rate of progress in the solution of complex scientific-technical problems relating to the development of reliable and effective equipment for long transmission lines.

In the Plenum's resolution on this question it is stated that the 25th Congress of the CPSU laid down a vast