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UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE (UNECE)

GERMAN TECHNICAL COOPERATION (GTZ)

Report from
The Regional Seminar on the sustainable and safe operation of large hydrotechnical
structures in Central Asia

Tashkent, Uzbekistan
23-25 November, 2010

This Report has been issued without official editing by the Environment, Housing and Land Management Division of the Secretariat of the UN Economic Commission for Europe (UN ECE) and GTZ Program on Transboundary Water Management in Central Asia.

A. ORGANIZATION OF THE SEMINAR

1. The Regional Seminar on the sustainable and safe operation of large hydraulic structures in Central Asia was held on 23-25 November 2010 in Tashkent, Uzbekistan. The seminar was organized by the German Technical Cooperation (GTZ) and United Nations Economic Commission for Europe (UNECE) in cooperation with the State Inspection for Control and Supervision of the Technical Condition and Safe Operation of Large and High-Security Waterworks under the Cabinet of Ministers of the Republic of Uzbekistan (Gosvodkhoznadzor).
2. The seminar was held in the framework of the programme "Transboundary Water Resources Management in Central Asia" implemented by GTZ, and the second phase of the project "Dam Safety in Central Asia: Capacity Building and Regional Cooperation" implemented by the UNECE.

B. OBJECTIVES OF SEMINAR

3. The aim of the regional seminar was to familiarize specialists of the institutions and organizations from the Central Asian countries that deal with the security of waterworks, with experience that has been gained in this area. In addition, the purpose of this event was to exchange corresponding experiences among participants.

C. PARTICIPANTS

4. The regional seminar was attended by 26 representatives from Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan. Lectures were made by experts from Germany, Russian Federation, Gosvodkhoznadzor staff, representatives of several research and educational institutions of the Republic of Uzbekistan. In total the seminar was attended by 48 people. The list of participants is given in Appendix 1 to this report.

D. OPENING OF THE SEMINAR

5. Mr. Wolfgang Noyen, Ambassador of the Federal Republic of Germany in Uzbekistan delivered a welcoming speech to the participants. He noted that the seminar is held in the framework of German cooperation with the countries of Central Asia. He wished the participants of the seminar a productive discussion, and assured that Germany will continue to contribute to solving problems of safety of hydraulic structures in the region.
6. On behalf of the host country participants were welcomed by Mr. Shuhrat Talipov, Acting Chairman of Gosvodkhoznadzor in Uzbekistan. In his speech he noted that in Uzbekistan, the issues of security of hydraulic structures are considered at a high State level. He stressed the importance of safety of hydraulic structures in Central Asia and expressed his appreciation to GTZ and UNECE for their support in organizing the seminar and wished the participants a successful and productive work.
7. Mr. Kurbangeldy Ballyev, representative of the Executive Committee of IFAS in his welcoming speech stressed the importance of security issues with regard to hydraulic structures in Central Asia. He also reported that IFAS pays special attention to the security issues of hydraulic structures within ongoing projects as well as programmes developed under ASBP-3.

E. AGENDA OF THE REGIONAL SEMINAR

8. The Agenda of regional seminar on Sustainable and safe operation of large hydraulic structures in Central Asia is presented in Appendix 2.

F. SUMMARY OF THE DISCUSSIONS

9. Mr. Artur Vallentin, head of program on "Transboundary Water Resources Management in Central Asia" (TWRM CA) the Uzbekistan outlined the main aims and objectives of the program. He elaborated on the main results of a national pilot program "Monitoring of security for the safe and smooth operation of hydroelectric Station Ravathadzha"
10. In his presentation, Mr. Bo Libert, Regional Adviser, Environment, Housing and Land Management Division of UNECE, highlighted the progress of the Project "Dam Safety in Central Asia: Capacity Building and Regional Cooperation". He noted that the ongoing seminar is an important element of the project and also stressed the importance of the cooperation with GTZ. He wished the participants successful deliberations.
11. Seminar participants listened to 11 reports on various aspects of safety of hydraulic structures in the Federal Republic of Germany, the Russian Federation and Uzbekistan. Issues such as methods of diagnosis of the technical condition, results of field surveys using a mobile laboratory, measuring and control system for monitoring, monitoring of seismic events (earthquakes) on examples of various hydraulic structures were highlighted.
12. Participants of the seminar discussed the safety of major pumping station in each of the countries of Central Asia and the importance of these facilities for the economy of each country was noted. Participants expressed their views on the need of improvement of their respective national legislative frameworks and organizational mechanisms as well as normative technical documentation ensuring the safety of large pumping stations.
13. In discussions on the presented reports, participants exchanged views on the status of normative documents on safety of hydraulic structures and oversight services in Central Asian countries. The representative of Tajikistan in EC IFAS, Mr. Khairullo Ibodzoda reported that on 11 of November, 2010 Republic of Tajikistan had adopted the Law on "Safety of Hydraulic Structures." The representative of Turkmenistan in IFAS Mr. Kurbangeldy Ballyev informed about the beginning of consultations between Turkmenistan, Iran and Afghanistan on the possibility to develop an agreement on the shared water resources of transboundary river Geri-rud. He expressed hope that the UN will support the development of this document. The representative of Kazakhstan, Mr. Zhumabek Muhatov briefed about the work that has started in cooperation between Kazakhstan and Kyrgyzstan on the joint study of the state of the Kirov waterworks on the Talas River, and requested support from UNECE and GTZ on this matter. He also suggested the possibility of support for a similar project at the Tasatkol Reservoir on the Chu River and the Talas dam on the Talas river. Representatives of Kazakhstan and Tajikistan also requested support in building and equipping national centers on safety of hydraulic structures by international organizations.
14. The seminar participants visited Ravathodza waterworks on the river Zeravshan to get acquainted with the operation of its safety system, in particular with the system of piezometers and a mobile diagnostic laboratory developed under the TWRM CA GTZ Programme.
15. Each participant received a CD from the seminar with presentations made as well as additional material presented at the seminar.

G. CONCLUSIONS AND RECOMMENDATIONS

- 16.
- a) The participants noted the importance and usefulness of the presentations made and materials distributed to ensure the safety of hydraulic structures in Central Asia. It can be concluded that the safe operation of large pumping stations is an important issue in all countries of the region.
 - b) Taking into account that the seminar was an important element of cooperation between the countries in Central Asia on the safety of hydraulic structures, participants recommended to strengthen this cooperation by organizing other meetings on this theme for the exchange of experiences and training of personnel. In particular, it is important to organize training courses and establish national training centers on the safety of hydraulic structures.
 - c) The organizers of the UNECE and GTZ projects as well as other potential donors were requested to consider providing support to countries in the region for further work to ensure the safety of hydraulic structures, at national as well as regional levels. National Coordinators of the UNECE "Dam safety in Central Asia: Capacity Building and Regional Cooperation " were encouraged to submit specific proposals for the development of such support to the secretariat of the project.
 - d) The adoption of the Law on safety of hydraulic structures in the Republic of Tajikistan was noted with appreciation. Participants estimated that this is important step in ensuring the safety of hydraulic structures at both national and regional levels.
 - e) Participants expressed their utmost gratitude and appreciation to UNECE, GTZ and the staff of Gosvodkhoznadzor Uzbekistan for the well organized the seminar.

СПИСОК УЧАСТНИКОВ
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Ташкент, Узбекистан 23-25 ноября 2010 года

LIST OF PARTICIPANTS
Regional seminar on the
Sustainable and Safe Operation of Large Hydropotechnical Structures in Central Asia
Tashkent, Uzbekistan November 23-25, 2010

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PROGRAM
Regional workshop on the
Sustainable and Safe Operation of Large Hydrotechnical Structures in
Central Asia

Place: Tashkent, Uzbekistan

Time: 23-25 November 2010

Seminar is held in the conference hall of “Shodlik Palace” hotel
Tashkent, 5 Pakhtakor Street

Day One - (23 November, Tuesday)		
08 ³⁰ -09 ⁰⁰	Registration of participants	
09 ⁰⁰ -09 ³⁰	Opening Ceremony	TWMP/GTZ UNECE State Inspection Gosvodkhoznadzor
Session 1. Monitoring system for safe operation of Ravatkhodja Headwork		
09 ³⁰ -09 ⁴⁵	NPP “Monitoring system for safe operation of Ravatkhodja Headwork” within Transboundary Water Management in Central Asia Programme	Artur Vallentin Team leader of TWMP CA, Component in Uzbekistan
09 ⁴⁵ -10 ⁰⁰	Implementation of the project “Dam Safety in Central Asia: Capacity Building and Regional Cooperation”	Bo Libert Regional Advisor UNECE
10 ⁰⁰ -10 ³⁰	Functions of mobile diagnostics laboratory. Stationary measurement and control system installed on Ravatkhodja Headwork within TWMP CA	Talipov S. Acting head Gosvodkhoznadzor
10 ³⁰ -10 ⁴⁵	Field observations and research results from application of diagnostics equipment within TWMP CA	Mirkhodjiev M Director Diagnostics Center Gosvodkhoznadzor
10 ⁴⁵ -11 ⁰⁰	Discussion and concluding remarks	
11⁰⁰-11³⁰	<i>Coffee break</i>	
Session 2. German experience on hydrotechnical structures safety		
11 ³⁰ -12 ¹⁵	The measuring and controlling system for the monitoring of the barrage Leibis/Lichte	Johan Mehl Expert from Germany
12 ¹⁵ -13 ¹⁵	The monitoring system of accelerations at the reservoir Leibis/Lichte (registration of earth quake events)	Johan Mehl Expert from Germany
13¹⁵-14³⁰	<i>Lunch</i>	

14 ³⁰ -14 ⁴⁵	Realization of investment projects in water sector and collaboration with international organizations regarding reconstruction of important hydrotechnical structures (pumping stations) in Uzbekistan	Sheraliev U. Acting deputy head Department of agriculture and water Ministry of Economics of Uzbekistan
14 ⁴⁵ -15 ⁰⁰	Measures for improving pumping with high turbidity	Makhmudov E. Director Water problems Institute of Academy of Sciences of Uzbekistan
15⁰⁰-15³⁰	<i>Coffee Break</i>	
15 ³⁰ -17 ⁰⁰	Main technical standards for measurement and diagnostics in Russian Federation and norms	Radkevich D. Expert
19 ⁰⁰ -21 ⁰⁰	Official dinner provided by TWMP CA	
Day Two - (24 November, Wednesday)		
Session 3. Field trip to NPP Ravatkhodja Headwork, Samarkand Province		
07 ³⁰ -11 ³⁰	Departure to Samarkand	TWMP CA/ Gosvodkhoznadzor
11 ³⁰ -14 ³⁰	Visit of Ravatkhodja Headwork	
14 ³⁰ -15 ³⁰	Official lunch provided by Gosvodkhoznadzor	
15 ³⁰ -19 ⁰⁰	Departure to Tashkent	
Day Three - (25 November, Thursday)		
Session 4. Safety and technical conditions of large pumping stations		
09 ⁰⁰ -11 ⁴⁰	Legal and institutional frameworks. Technical situation of large pumping stations in Central Asia: In Kazakhstan In Kyrgyzstan In Tajikistan In Turkmenistan	Representatives of Central Asian countries
11⁴⁰-12⁰⁰	<i>Coffee break</i>	
12 ⁰⁰ -13 ⁰⁰	Monitoring system on safety and technical conditions of pumping stations in Uzbekistan	Kopilov V Gosvodkhoznadzor
13⁰⁰-14⁰⁰	<i>Lunch</i>	
14 ⁰⁰ -14 ²⁰	Specifics and issues on safe operation of transboundary pumping stations Karshi main Canal and Amu-Bukhara Canals	Shomayramov M Deputy head of department Ministry of Agriculture and Water Resources of Uzbekistan
14 ²⁰ -14 ⁴⁰	Development of forecast methods for studying technical conditions and emergency situations, sustainability and safety indicators of pumping stations operation	Glovatskiy O. Laboratory head Central Asian institute for irrigation
14 ⁴⁰ -15 ⁰⁰	Safety criteria as instrument for control and assessment of technical conditions of pumping stations	Kopilov V. Gosvodkhoznadzor
15⁰⁰-15³⁰	<i>Coffee break</i>	

15 ³⁰ -16 ³⁰	Final discussions and recommendations	
16 ³⁰ -17 ⁰⁰	Closing ceremony, distribution of certificates	TWMP CA/GTZ UNECE Gosvodkhoznadzor