

**UNITED NATIONS
ECONOMIC COMMISSION FOR EUROPE**

**EXECUTIVE BOARD OF THE INTERNATIONAL FUND FOR
SAVING THE ARAL SEA IN THE REPUBLIC OF KAZAKHSTAN**

**Report on the National Meeting
"Safety of Hydraulic Structures in the Republic of Kazakhstan"**

Almaty, Kazakhstan, October 19, 2010¹

¹ This report has been issued by the Environment, Housing and Land Management Division of the Economic Commission for Europe (UNECE) and the Executive Board of the International Fund for Saving the Aral Sea in the Republic of Kazakhstan

A. ORGANIZATION OF THE MEETING

1. The national meeting on cooperation on dam safety in Central Asia was held in Astana, Kazakhstan on October 19, 2010. The meeting was organized by the Executive Board of the International Fund for Saving the Aral Sea in the Republic of Kazakhstan and the Committee on Water Resources, Ministry of Agriculture of the Republic of Kazakhstan and the European Economic Commission (UNECE).

2. The meeting was conducted in the framework of the second phase of the UNECE Project "Dam Safety in Central Asia: Capacity Building and Regional Cooperation". The Project, implemented in the framework of the Project Working Group on Water and Energy Resources of the UN Special Programme for the Economies of Central Asia (SPECA), is aimed at improvement of the national legislation and state regulation in the field of dam safety in the countries involved and strengthening regional cooperation on dam safety. It is implemented in the context of the Programme of Action to improve the environmental and socio-economic situation in the Aral Sea Basin for the period 2003 – 2010 (ASBP-2), under the International Fund for Saving the Aral Sea (IFAS), is an integral part of the Environment and Security Initiation (ENVSEC) and is funded by the Government of Finland.

1. Purpose of the Meeting

3. The immediate objective of the meeting was to discuss the adoption of a national law governing the safety of hydraulic structures (HTSs) in Kazakhstan, Kazakhstan's participation in the formulation of a regional agreement on cooperation in the field of dam safety, as well as cooperation on harmonization of legislation and technical normative documents on dam safety.

2. Participants

4. The meeting was attended by representatives of the Majilis Parliament of the Republic of Kazakhstan, ministries and agencies directly involved in the state regulation to ensure safe operation of the HTSs (CWR of the MOA RK, MOA RK, Committee on Energy Supervision of the Ministry of Science and New technologies, Ministry of Emergency Situations, Ministry of Foreign Affairs, Ministry of Finance) and other organizations. The number of participants of the meeting including the staff of the UNECE secretariat and consultants accounted for 46 people. The list of participants is given in the Attachment 1 to this report.

3. Opening Ceremony

5. The Meeting was opened by Mr. Marat Orazayev, Vice-Minister of the Ministry of Agriculture of the Republic of Kazakhstan.

He welcomed the participants and thanked for their participation and intention to discuss vital issues despite being very busy. The project "Dam Safety in Central Asia" under the organizational and financial support of the UNECE, UNESCAP and IFAS was initiated in 2004 and aims at strengthening the national capacities in the safety of dams, improvement of the regional cooperation in this field. The project is implemented in the context of the Programme of Action to improve the environmental and socio-economic conditions in the Aral Sea Basin for a period 2003 - 2010 (ASBP-2).

The main objective of the project is to promote cooperation between Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan to ensure the safe operation of dams and other hydraulic structures in Central Asia through development of recommendations on the main directions of this cooperation, the exchange of relevant experiences among the participants, development of national legislation on dam safety and drafting regional agreement on cooperation in case of emergencies at the hydraulic structures.

In summarizing his speech he wished the meeting fruitful outcomes and a unified approach to solving the issues discussed.

6. The member of the Executive Committee of IFAS, the representative of Turkmenistan Mr. Kurbangeldy Ballyev in his welcoming speech noted the importance of the issues discussed and stressed the importance of cooperation on dam safety between the countries of Central Asia.

7. The Chairman of the Committee on Water Resources of the MOA RK, Mr. Anarbek Ormanov pointed out that Kazakhstan is located in the lower reaches of major transboundary rivers, therefore the water availability in Kazakhstan is largely dependent on the economic conditions of the neighboring states, their rate of economic development and growth of population. Consequently, the regulation and protection of water resources are of strategic importance. In this regard the country-participants shall formulate their adequate government policies to be reflected in the draft Agreement, which is subject to discussion at the meeting.

He also pointed out that the meeting will provide the opportunity for participants to exchange views on improvement the institutional structure in the field of dam safety, to discuss the issue on delimitation of powers between ministries and agencies related to the safety of hydraulic structures, and the ways of further improvement of the regulatory and legislative basis on this issue.

8. The world was given to Mr. Bo Libert, Regional Adviser on Environment, Housing and Land Management, UNECE to welcome the participants of the meeting.

He expressed his gratitude to the participants of the meeting in Astana. Safety issues of hydraulic structures located on the transboundary waters are very important for Kazakhstan, since most of the major rivers are transboundary. It is also time to discuss how and in which direction to continue the work. The project is presently financed by the Governments of Finland, Russia and the Eurasian Development Bank. In this project, there are two important directions of work, the model technical regulations and the Draft Agreement on Cooperation in the field of safety of hydraulic structures in Central Asia. Regional meetings will be held according to plans. Finally he expressed his hopes for fruitful and mutual cooperation.

4. Adoption of Agenda

9. Mr. M. Orazayev introduced the agenda and the program of the meeting (Attachment 2).

B. REMARKS AND SUMMARY OF DISCUSSIONS

10. Mr. Bo Libert, Regional Adviser on Environment, Housing and Land Management Division, UNECE, in his speech said that the project "Dam safety in Central Asia: Capacity Building and Regional Cooperation" is performed under the SPECA and the UNECE Convention on the Protection of and Use of Transboundary Watercourses and International Lakes. He gave a presentation on the implementation of the second phase of the "Dam Safety in Central Asia: Capacity Building and Regional Cooperation" project and the challenges facing the member countries in its further implementation.

As an example he showed slides from the accident occurred on the 4th of October at the Hungarian aluminum plant due to which 8 people were killed and more than 130 people were hospitalized.

11. Mr. Medet Ospanov, the Director of EB IFAS in the RK highlighted the participation of the Executive Board of IFAS in the implementation of the "Dam Safety in Central Asia: Capacity Building and Regional Cooperation" project in Kazakhstan and coordination amongst the governmental agencies to establish inter-ministerial working groups, progress on consideration draft regional agreement and the Model Technical Regulations. He also noted on the necessity to assign specialists to work with the materials of the project.

12. An overview on legal issues in the safety of dams in the Republic of Kazakhstan was made by Mr. Zhumabek Mukhatov, the Chief Expert, the CWR, the Ministry of Agriculture of the RK. In his report he highlighted the results of the inventory survey of hydraulic structures in

the Republic of Kazakhstan. He stressed that the financing allocated from the national budget is inadequate to rehabilitate the hydraulic facilities which is under severe emergency conditions.

13. Information about the plans to develop standards related to safety of hydraulic structures in the Republic of Kazakhstan was provided by Mr. Igor Petrakov, an expert of the UNECE. In his presentation, he highlighted the ownership issues in terms of HTSs and presented proposals on improvement of legislation in this field.

14. With the information on "New approaches in Russian legislation on safety of hydraulic structures and technical regulation in the Russian Federation" was made by Mr. Dmitry Radkevich, the UNECE consultant, general Director of the R&D Center Gidrotehbezopasnost, RF. He focused on the historical development of the state regulation and supervision on hydraulic structures in Russian Federation. He highlighted some of the provisions of Russian law "On safety of hydraulic structures" and provided information about the development of the regulatory framework for the safety of hydraulic structures in Russia.

15. The report "Development of control, supervision and safety of water facilities in the Republic of Uzbekistan" was made by Mr. Farrukh Aknazarov, PhD (Economics), Professor. He informed the audience about the content of the national law of Uzbekistan on safety of hydraulic structures, development of safety management systems over HTSs and future plans of Uzbekistan to improve the regulatory framework to ensure the safety of hydraulic structures.

16. Mr. Sergey Khlystov, technical director of Tieto-Oskari Oy, Finland, gave a presentation entitled "Automated monitoring system for the safety of dams and levees". In his presentation, he described the modern methods of monitoring the dams and levees in respect of safety. He also provided information on automated treatment processes of monitored data, identification of leaks in the hydraulic structures, rehabilitation works and services, radar-based technology for transmission of dam's body, software for processing, storage and analysis of monitored data. Also he raised the issues on possible application of advanced methods for monitoring the safety of hydraulic structures in Kazakhstan.

17. Mr. Peter Dmitrienko, MP, in his speech told about the procedure on initiation of draft legislation. Highlighting the importance of the improvement of the legislation on dam safety, in particular, on the issue of identification the ownership of HTSs, Mr. Dmitrienko expressed his readiness to participate in the procedure.

18. Mr. Nariman Kipshakbayev stressed that the issue of dam safety must be considered comprehensively and systematically, the main interests of the state shall be drawn to water conservation, proper forecast the change in water management situation and respond effectively to it. The lack of information center and unified state database does not allow to the Committee on Water Resources to respond quickly to the situation.

19. Mr. Erkin Satenbaev, Deputy Director of R&D Institute of Water Management noted the lack of engineering specialists. He requested support for a proposal on the establishment in the Republic of Kazakhstan of a International Research and Training and Technology Center, a higher school for training, retraining and advanced training of personnel in management and supervision of safety of hydraulic structures. He stressed that it is necessary to assist the pilot test site of the CWR of the Ministry of Agriculture (CWR MOA), on the basis of the Kazakh Institute of Water Resources, in provision of tools and equipment, test equipment for the technical supervision of the safety of hydraulic structures for the successful functioning of scientific and educational-technology center for retraining and skills upgrading of staff engaged in the management and supervision of dam safety issues.

20. Ms. Anar Tleulesova, a UNDP expert, pointed out that each reservoir must have the operational rules approved by the authorized body as many of the existing sets are obsolete.

21. During the discussion the following questions were raised:

- The status of the CWR MOA in the general system of government of the Republic of Kazakhstan is very low and does not allow effectively and quickly to overcome inter-ministerial constraints;
 - absence of information center and a unified state database "Water resources and water facilities" does not allow the CWR MOA quickly and efficiently respond to changing water situation;
 - the Ministry of Agriculture and the Ministry of Emergency Situations (MOES) should contact the Ministry of Education to increase the quota for admission to colleges of students of engineering and hydrologic specialties;
 - the CWR MOA, the MOES and the Ministry of Industry and New Technologies (MI&NT) should jointly develop the concept of safety of hydraulic structures;
 - the issue on inadequate funding for rehabilitation of damaged water structures was raised repeatedly;
 - the safety of the HTSs cannot be ensured without safe hydrology, the CWR MOA should make the requirements for the development of safe hydrological regimes more strict;
 - the CWR MOA and MOES should jointly develop a mechanism and procedures of the work of the Commission for inspection of hydraulic structures' condition;
 - to improve monitoring of the HTSs conditions by modern means of control and surveillance should be introduced;
 - due to poorly developed network of hydrological stations to monitor water resources, it is necessary to restore the observation posts on the rivers with reservoirs and employ modern monitoring means;
 - the MOES shall be required to introduce modern means of emergency alert system on emergencies on HTSs.
22. The analysis of the draft technical regulations model "Safety of hydraulic structures" was made by Joseph Vilkovisky, chief engineer, Kazgidro LLP.
23. Mr. Maidan Nurtazin supported the development of the National Technical Regulations on Safety of Hydraulic Structures of the Republic of Kazakhstan. In his opinion, the provisions of the model rules may be employed in drafting national legislation.
24. Information on the comments and proposals received from ministries and departments on the draft agreement on cooperation in the field of safety of hydraulic structures in Central Asia was provided by Mr. Igor Petrakov, an expert of the UNECE. The revised text of the Agreement is available.
25. In discussing the progress on the draft Agreement the issue had been raised about the composition of an interim regional working group on revision of the draft Regional agreement. It was noted that concerned ministries and departments need to reassign members to the working group due to high turnover of its staff. It was also noted that its work should be organized more efficiently.

CONCLUSION AND RECOMMENDATIONS

26. The meeting adopted decisions on the issues discussed and recommended the following actions:

- I. *On implementation of the "Dam Safety in Central Asia: capacity building and regional cooperation"***
 - a. Information on the status of "Dam Safety in Central Asia: capacity building and regional cooperation" provided by the Regional Adviser on Environment, Housing and Land Management UNECE, Mr. Bo Libert and director of EB IFAS. Mr. Medet Ospanov shall be taken into consideration.
 - b. Express gratitude to the UNECE and the Executive Board of IFAS in the RK for their substantial and fruitful contribution to the work carried out during the implementation of the project "**Dam Safety in Central Asia: capacity building and regional cooperation**".
- II. *With regard to the draft regional agreement between the Governments of Kazakhstan, the Kyrgyz Republic, the Republic of Tajikistan, the Cabinet of Ministers of Turkmenistan and the Government of the Republic of Uzbekistan on cooperation in the field of safety of hydraulic structures:***
 - a. The work on finalizing the draft regional agreement on cooperation in safety of hydraulic structures shall be continued;
 - b. The amendments proposed by the Kazakh side shall be taken into account in finalizing the draft regional agreement;
 - c. The Ministry of Foreign Affairs, Ministry of Justice, the CWR MOA, other ministries and departments dealing with the state regulation of safety of hydraulic structures shall be recommended to clarify the composition of a temporary regional working group on revision of the draft regional agreement. The members of the working group with the support of the representatives of EC IFAS and EurAsEC and international project consultants shall continue work to finalise of the draft agreement.
- III. *With regard to the current legislation on the safety of hydraulic structures in Kazakhstan:***
 - a. Participants in the national meeting noted that the regulatory framework on the safety of hydraulic structures is immature, there are a number of issues that require further development and settlement;
 - b. It is recommended to work out regulations on the assignment of mandates of the organizations (state bodies) concerned on ensuring safety of hydraulic structures with detailed delimitation of powers;
 - c. Based on the analysis of the existing regulatory framework it was proposed to support the development of the draft law of the RK "On safety of hydraulic structures" and request the CWR MOA and the MOES to come up with appropriate proposals to the Government of the RK to establish a working group and include the draft law in the legislative work plan for 2011;
 - d. In discussing the third issue of the agenda the following comments were made:
 - the status of the CWR MOA needs to be upgraded – the current status of the CWR MOA in the overall system hierarchy of the government of the RK does not allow to overcome inter-ministerial constraints efficiently;

- an information center and a unified state database "Water resources and water facilities" need to be established - the lack of a common data base does not allow the CWR MOA quickly and accurately predict the change in water management situation and respond effectively to it;
- the MOA and the MOES should contact the MOE to increase the quota for admission to colleges of students of engineering and technical specialties;
- the CWR MOA, the MOES and MI&NT should jointly develop the concept of safety of hydraulic structures;
- the funding for rehabilitation of HTSs to ensure their safety needs to be increased – there is a lack of funding for the repair work, in particular on accident-prone HTSs;
- the CWR MOA is requested to make the requirements for maintaining safe hydrological regimes and rules of operation of reservoirs more strict;
- the CWR MOA and MOES jointly is requested to develop a mechanism and procedures for the Commission to conduct inspection of hydraulic structures;
- the owners of HTSs shall introduce advanced monitoring means to improve monitoring of HTSs;
- the Kazhydromet shall be requested to restore observation posts on rivers with reservoirs;
- the MOES is recommended to introduce modern means of emergency alert system on the emergencies on the HTSs.

IV. *With regard to the draft model of technical regulations "Ensuring the Safety of Hydraulic Structures":*

a. the relevant authorities is recommended to employ the proposed model of technical regulations "Ensuring the safety of hydraulic structures" for the development of national legal act;

b. the UNECE Secretariat (Mr. Bo Libert) and the Executive Board of IFAS in the RK is requested to provide assistance to the relevant authorities in drafting a national technical regulation "Ensuring the safety of hydraulic structures".

V. *The UNECE secretariat and EC IFAS in Kazakhstan is requested to provide assistance:*

a. together with the concerned governmental agencies in strengthening the capacity of the International Scientific Training and Technology Center, a higher school for training, retraining and skills upgrading in management and supervision on safety of HTSs, in procurement of materials and goods necessary for the laboratory in order to conduct training courses based on Kazakh R&D Institute of Water Management and the CWR, the Ministry of Agriculture;

b. in attracting international experts for training courses and development of scientific and methodical training programs for trainers on safety of HTSs.

VI. *Express gratitude to organizers of the event and all participants of the national meeting for the constructive exchange of views on the issues of the agenda*

Coordination of activities with respect to implementation of the above recommendations issued by the national meeting shall be entrusted to the Committee on Water Resources MOA of the RK, and for the implementation of the project "Dam Safety in Central Asia: capacity building and regional cooperation" to the Executive Board of IFAS in the Republic of Kazakhstan.

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“Safety of Hydraulic Structures in the Republic of Kazakhstan”**

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	ПРЕССА	MEDIA	
47.	Сулейменова Раушан Пресс-секретарь К и КС	Raushan Suleimenova Press Secretary, K&KC	
48.	Ишунина Юлия Новости Казахстан	Yuliya Ishunina Novosti Kazakhstan	
49.	Преображенская Елена КазТаг	Yelena Preobrazhenskaya KazTag	
50.	Манунбеков Муратбек КазИнформ	Muratbek Manunbekov KazInform	
51.	Туянова Назия Хабар	Naziya Tuyanova Khabar	
52.	Сарсенов Ж Хабар	Zh. Sarsenov Khabar	
53.	Омаров Бахытжан Казахстан	Bakhytzhan Omarov Kazakhstan	
54.	Вааль Тамара Портал Республика	Tamara Vaal Portal Respublica	
55.	Кербейтов Талгат Астана	Talgat Kerbeitov Astana	
56.	Мамышев Жанболат БейнЮст	Zhanbolat Mamyshev BeinUst	
57.	Кужеков Ж Радио Свобода	Zh.Kuzhekov Svoboda Radio	
58.	Абдрахманова Гульмира АгроЖаршы - специализированная газета АПК Казахстана	Gulmira Abdrakhmanova AgroSharzhy – special newspaper of the Agro-industrial Complex of Kazakhstan	

NATIONAL MEETING

“Safety of Hydraulic Structures in the Republic of Kazakhstan”

Date: 19 October, 2010

Time: 09:00

Venue: Astana city, 8 Orynbor Street, build.3, Administrative builds. “Ministerial House”, gate 11, Conference room, 1st floor

	ПРОГРАММА	PROGRAMME
09.00 – 09.30	Регистрация участников, раздаточный материал:	Registration, dissemination material
09.30 – 09.45	Открытие Совещания Модератор: Марат Аблахатович Оразаев , Вице-министр сельского хозяйства Республики Казахстан Приветствия: Курбангельды Баллыев , член ИК МФСА, представитель Туркменистана Анарбек Онгарович Орман , Председатель Комитет по водным ресурсам МСХ РК.	Opening ceremony Moderator: Marat Orazayev , Vice Minister, Ministry of Agriculture of the RK Welcoming speech: Kurbangeldy Ballyev , member of the EC IFAS, representative of Turkmenistan Anarbek Orman , Chairman, Water Resources Committee, Ministry of Agriculture of the RK
09.45 – 10.00	Презентация регионального проекта «Безопасность плотин в Центральной Азии: создание потенциала в региональном сотрудничестве» Бу Либерт , Региональный советник Отдела по окружающей среде, жилищному вопросу и землепользованию ЕЭК ООН; Медет Оспанов , Директор ИД МФСА в РК	Presentation of the regional project “Safety of dams in Central Asia: capacity building in regional cooperation” Bo Libert , Regional Adviser, Environment, Housing and Land Management Division, UNECE; Medet Ospanov , Director, EB IFAS in the RK
10.00 – 10.20	Обзор правовой ситуации в отношении безопасности плотин в Республике Казахстан Жумабек Мухатов , Главный эксперт, Комитет по водным ресурсам МСХ РК	Review of legislation on dam safety in the Republic of Kazakhstan Zhumabek Mukhatov Ministry of Agriculture, CWR Chief Expert
10.20 – 10.40	Информация о планах по развитию нормотворческой деятельности по Безопасности гидротехнических сооружений в Республике Казахстан Игорь Петраков Эксперт проекта ЕЭК ООН	Information on planned activity in the development of legislation on safety of hydro-technical structures in the Republic of Kazakhstan Igor Petrakov UNECE Project Expert
10.40 – 11.00	Новые подходы в российском законодательстве о безопасности гидротехнических сооружений и техническом регулировании Дмитрий Радкевич , Консультант ЕЭК ООН, Генеральный директор НТЦ «Гидротехбезопасность» РФ	New approaches in the legislation of Russian Federation on safety of hydro-technical structures and technical regulation Dmitry Radkevich STC Hidrotekhbezopasnost, Russian Federation, General Director UNECE Consultant
11.00 – 11.30	Перерыв	Break
11.30 – 11.45	Развитие контроля, надзора и безопасности водохозяйственных	Development of control, supervision and safety of water facilities in the

	<p>объектов в Республике Узбекистан Фаррух Акназаров, начальник управления, Главное управление Госводхознадзор, РУ, доктор экономических наук, профессор</p>	<p>Republic of Uzbekistan Farukh Aknazarov Main department Gosvodkhoz nadzor under Cabinet of Uzbekistan, Head of Department, PhD (Ecs)</p>
11.45 – 12.45	<p>Обсуждение нормотворческой деятельности по Безопасности гидротехнических сооружений в Республике Казахстан Дмитриенко Петр Гаврилович, депутат Мажилиса Парламента РК, Комитет по аграрным вопросам Нариман Кипшакбаев, директор Казахского филиала Научно-информационного центра МКБК, и другие</p>	<p>Discussion of issues on the development of legislation on safety hydro-technical structures in the Republic of Kazakhstan Petr Dmitrienko, Member of Mazhilis, Parliament of the RK, Committee on agrarian issues Nariman Kipshakbayev Research –Information Center of ICWC, Kazakh branch, Chairman and others</p>
12.45 – 13.00	<p>Автоматизированная система мониторинга применительно безопасности плотин и дамб Сергей Хлыстов, технический директор компании «Тиеото-Оскар Ой»</p>	<p>Automated monitoring system for dam safety Sergei Khlystov Tieto –Oskari Oi Company, Finland Technical Director</p>
13.00 – 14.00	Обед	Lunch
14.00 – 14.30	<p>Рассмотрение проекта модельного технического регламента «Обеспечение безопасности гидротехнических сооружений» Иосиф Вильковиский, Главный инженер, ТОО Казгидро</p>	<p>Model project of technical regulation on provision of safety in hydro-technical structures Yosif Vilkovissky Kazgidro LLP Chief Engineer</p>
14.30 – 15.00	<p>Обсуждение, замечания и предложения РК к модельному техническому регламенту «Обеспечение безопасности гидротехнических сооружений в ЦА» Майдан Нуртазин, технический директор КП «Казгипроводхоз» Еркин Сатенбаев, заместитель директора Казахского НИИ водного хозяйства, Анар Тлеулесова, эксперт проекта ИУВР Или-Балхашского бассейна ПРООН</p>	<p>Discussion on comments and proposals of the RK with regard to the model technical regulation “Safety of hydraulic structures in Central Asia” Maidan Nurtazin, Design Institute Kazgiprovodkhoz, Technical Director Yerkin Satenbayev Kazakh R&D Institute of Water Management, Deputy General Director (Science) Anar Tleulesova UNDP expert, Consultant – Specialist on UNDP IWRM in Ili-Balkhash river basin</p>
15.00–15.30	<p>Рассмотрение Проекта Соглашения о сотрудничестве в области безопасности гидротехнических сооружений в Центральной Азии Обсуждение</p>	<p>Consideration and discussion of the draft Regional Cooperation Agreement on hydraulic structures safety in Central Asia</p>
15.30 – 16.00	Принятие резолюции национального совещания	Adoption of Decision of the National Meeting