

UNITED NATIONS
ECONOMIC COMMISSION FOR EUROPE

THE INTERNATIONAL FUND FOR SAVING THE ARAL SEA

**REPORT OF THE REGIONAL MEETING FOR DAM SAFETY COOPERATION
IN CENTRAL ASIA**

Bishkek, Kyrgyzstan, September 19-20, 2011

This report has been issued without official editing by the Environment Division of the United Nations Economic Commission for Europe (UNECE) Secretariat

A. ORGANIZATION OF THE MEETING

1. The Regional Meeting for Dam Safety Cooperation in Central Asia took place in Bishkek, Kyrgyzstan on September 19 – 20, 2011. The Meeting was organized by the United Nations Economic Commission for Europe (UNECE) in close cooperation with the Executive Committee of the International Fund for Saving the Aral Sea (EC IFAS).

2. The Meeting was held within the framework of Phase II of the project “Dam Safety in Central Asia: Capacity Building and Regional Cooperation” implemented by UNECE with financial support provided by the Government of Finland and additional funding from the Government of Russian Federation. The project that is carried out under the supervision of the Project Working Group on Water and Energy Resources in Central Asia and within the framework of the United Nations Special Programme for the Economies of Central Asia (SPECA). It is also part of the work programme of the UNECE Convention on Protection and Use of Transboundary Watercourses and International Lakes. The project is aimed at improving the national legislation and state regulation in the field of dam safety in member states and at enhancing the regional cooperation in this field. This project is also a part of Environment and Security Initiative (ENVSEC).

1. Objectives of the Meeting

3. The meeting summarized and considered the main outcomes of the Phase II of “Dam Safety in Central Asia: Capacity Building and Regional Cooperation Project”. Proposals on priority areas for further development of cooperation to enable safety of hydraulic engineering structures at national and regional levels were discussed. In addition, an objective of the meeting was to exchange corresponding experiences between the participants.

2. Attendance

4. 21 participants from Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan took part in the meeting and 3 participants represented IFAS. United Nations Development Program (UNDP), German international cooperation agency (GIZ), US Agency for International Development (USAID) were also represented. 37 participants included in the list of Appendix 1 to this report took part in the meeting including staff members of UNECE Secretariat, consultants and representatives of other organizations.

3. Opening of the Meeting

5. The Meeting was opened by Mr. Chyngyz Uzakbaev, deputy Chairman of the State Committee for Water Resources and Amelioration of the Kyrgyz Republic. He emphasized the relevance of hydraulic structures’ safety issues for Central Asia and noted the important contribution made by Phase II of the project “Dam Safety in Central Asia: Capacity Building and Regional Cooperation”. He expressed gratitude to UNECE and to the international consultants on behalf of the Government of the Kyrgyz Republic for their support and assistance provided to address problems important for Central Asian region and wished all of the participants fruitful work, interesting discussions and implementation of the relevant plans.

6. Mr. Bo Libert, Regional Adviser, Environment Division, UNECE, in his welcoming speech briefly described the results achieved, thanked national project coordinators and experts for their input to project implementation, and expressed gratitude to EC IFAS for their cooperation with UNECE in project implementation.

7. Mr. Sagit Ibatullin, Chairman of EC IFAS, welcomed the participants. He emphasized that the countries of the region were willing to continue cooperation in the sphere of hydraulic engineering structures' safety and that EC IFAS plans to actively support this area of cooperation.

4. Election of Officers

9. Messrs. Chyngyz Uzakbaev, deputy Chairman of the State Committee for Water Resources and Amelioration of the Kyrgyz Republic; Medet Ospanov, Director, IFAS Executive Board in the Republic of Kazakhstan; Akhbarhodja Nabiev, director of "Tajikgiprovodkhoz" institute of the Ministry of Amelioration and Water Resources of Tajikistan; Kurbangeldy Ballyev, Plenipotentiary of Turkmenistan in EC IFAS, and Shukhrat Talipov, chief specialist of the State Inspectorate on Control and Surveillance of Technical Condition and Safe Operation of Large and Important Water Management Facilities ("Gosvodhoznadzor") of the Republic of Uzbekistan took turns in chairing the sessions of the Meeting.

5. Approval of the Agenda

10. The following agenda of the meeting was approved:

1. Opening of the Meeting.
2. Election of officials and approval of the agenda of the meeting.
3. On the implementation of Phase II of the project "Dam Safety in Central Asia: Capacity Building and Regional Cooperation".
4. Results of implementation of Phase II of the project "Dam Safety in Central Asia: Capacity Building and Regional Cooperation" at regional and national levels.
5. Working group session on the harmonization of regulatory, legislative and technical instruments on dam safety in countries of Central Asia.
6. Working group session on the elaboration of the Regional Agreement on Cooperation with respect to Hydraulic Structures' Safety.
7. Support of cooperation in the sphere of Hydraulic Structures' Safety by international organizations and financial institutions. Prospects of developing cooperation in Central Asia.
8. Elaboration of recommendations of the meeting.
9. Miscellaneous.
10. Conclusion of the meeting.

11. The Programme of the regional meeting for Dam Safety Cooperation in Central Asia is attached in Annex 2.

B. PROCEEDINGS

12. Under the item of the agenda on implementation of Phase II of the project "Dam Safety in Central Asia: Capacity Building and Regional Cooperation", Mr. Bo Libert presented the main areas of activity within the frame of this Phase of the project that was implemented during 2008 - 2011. He emphasized that close and fruitful cooperation was established with EC IFAS in the course of project implementation.

13. Mr. Yuri Steklov, consultant, reported on the item of the agenda on results of implementation of Phase II of the project “Dam Safety in Central Asia: Capacity Building and Regional Cooperation” at regional and national levels and described the catalytic role of the project in terms of enhancing the national capacity of member countries to strengthen work on dam safety and safety of other hydraulic structures. He also noted that significant input was made by the project to strengthen international cooperation in this sphere in Central Asia. Then national project coordinators from each country of Central Asia, Mr. Medet Ospanov, Kazakhstan; Mr. Iskander Djoldoshaliev, Kyrgyzstan; Mr. Akhbarhodja Nabiev, Tajikistan; Mr. Kurbangeldy Ballyev, Turkmenistan; and Mr. Shukhrat Talipov, chief specialist of “Gosvodhoznadzor”, Uzbekistan, made brief presentations on impact of the project on improvement of regulatory framework and improvement of organizational mechanisms of state regulation of hydraulic structures safety in their respective countries. They also emphasized the input of the project to awareness rising of the management and upgrading qualification of staff members of the institutions dealing with the safety of hydraulic structures.

14. During the working group session on harmonization of normative and technical documentation in the sphere of dam safety, Mr. Dmitry Radkevich, consultant, reported that member countries did not present any significant comments to the elaborated model national technical regulation “Provision of the safety of hydro-technical structures” that was distributed among the participants of the regional project meeting that took place in Almaty in March 2010. He also reported that this draft model technical regulation was positively evaluated by Executive Committee of CIS Power Industry Council in April 2011. During the discussion it was agreed that the model regulation should be approved.

15. Mr. Vladimir Scherbina, consultant, presented a list of possible model normative and technical documents, including an operation manual for hydraulic structures, operation manual for visual observations and field examination of hydraulic structures, rules to arrange and conduct field examination of dams made of earth and some other documents, the draft versions of which should be elaborated during the next Phase of the project. It was proposed during further the discussion to broaden and specify this list.

16. Mr. Vladimir Scherbina, consultant, also reported about the progress made the creation of information-diagnostic system to monitor technical condition of Kirov reservoir dam on the Talas River, one of inter-state use structures under the jurisdiction of Chu-Talas water management commission. The work to identify dam safety criteria based on dam examination results has been completed.

17. During the working group session on the elaboration of the Regional Agreement on Cooperation with respect to Hydraulic Structures Safety in Central Asia, most participants agreed to continue the work on the draft Regional Agreement. Concerning this point, the representatives of EC IFAS expressed their willingness to continue the work related to coordination of draft Agreement with the support of UNECE.

18. During the session dedicated to the development of cooperation in Central Asia to enable the safety of hydraulic structures, Mr. Marian Minarik and Mr. Peter Panenka, Slovakia, described in details state regulation of dam and other hydraulic structures safety in Slovakia, shared experience accumulated by the national Dam Safety Service, and proposed some potential areas of cooperation between Slovakia and Central-Asian countries in this sphere. It was proposed, in particular, to arrange a joint study visit for dam and HS safety experts from Central-Asian countries to Slovakia and to carry out joint elaboration of normative and technical documents.

19. Mr. Michael Sabitov, expert, presented a methodology for the examination of low-pressure small hydraulic structures that was developed by Moscow state university of environmental development and tested at 1300 small hydraulic structures in Moscow region. In conclusion of his presentation he made a

proposal on cooperation in Central Asia on the safety of small HSs. Some of the country representatives expressed an interest in cooperation in this sphere.

20. Mr. Ryspek Apasov, UNDP Kyrgyzstan, reported that in the EU/UNDP project “IWRM integration in Kyrgyzstan”, it was planned to allocate some resources to support the establishment of an information-diagnostic monitoring system to monitor the condition of the Kirov dam.

21. During a discussion on proposals on further development of dam safety cooperation in Central Asia, Mr. Bo Libert, UNECE, described the content of a brief project proposal for the third phase of the project. This proposal has been disseminated to several international donors for possible funding. Some amendments were introduced to the text of this proposal during the discussion.

22. During the consideration of a list of potential cooperation areas to enable hydraulic structure’ safety in Central Asia, countries expressed their wishes regarding priorities of certain areas and several new areas were proposed.

23. Mr. Alexander Nikolayenko, German international cooperation agency, presented results of a complex evaluation of Shardarya hydraulic works in Kazakhstan performed in accordance with an Evaluation Protocol for sustainable development of HPP of the International Association of hydro-power engineering experts.

24. The material and presentations made during the meeting is found in Annex 5. This will be posted on the UNECE project web page.

B. CONCLUSIONS AND RECOMMENDATIONS

25. The participants of the meeting made the following decisions and recommendations under the agenda items:

1. To approve the model version of the draft technical regulation “On the safety of hydraulic structures” presented and reviewed during the Almaty meeting in March 2011, and to note with satisfaction the positive feedback about this document from the Executive Committee of CIS Power Industry Council in April 2011.
2. To take into consideration a list of potential model regulatory and technical documents with regard to HS safety reviewed during the meeting and to recommend the development of model versions of these documents within the next project phase. To greatly accept the initiative of the Uzbek representative to complement and specify the proposed list.
3. To recommend a continued activity of working group dealing with harmonization of normative and technical documents in dam safety sphere in Central Asian countries.
4. To take note of the intention of Central Asian countries’ representatives reflected during the meeting to continue the work on the draft Regional Agreement on the safety of hydraulic structures. To express satisfaction with willingness of EC IFAS to continue the work related to coordination of draft Regional Agreement with the support of UNECE.
5. To approve the brief project proposal of UNECE: “Capacity-building for cooperation on dam safety in Central Asia”, Phase 3 (see Annex 3), and when specifying this project proposal to consider those priority areas of further cooperation in enabling safety of hydraulic structures in Central Asia reviewed by the participants of the meeting.

6. To acknowledge the efforts of UN ESCAP for its plans to implement a project on small hydraulic structures' safety in Central Asia.
7. To note with gratitude the offer of the regional UNDP/EU Project "Facilitation of IWM and transboundary dialogue in Central Asia" to support project work on the safety of specific dams.
8. To note with gratitude the offer of the representatives from Slovakia to support cooperation with Central Asian countries on dam safety.
9. To adopt the Statement of the participants as a concluding document of the regional meeting that summarizes results of Phase II of the "Dam Safety in Central Asia: Capacity Building and Regional Cooperation Project" implementation (the text of the Statement is found in Annex 4).
10. To express a special gratitude to the staff of OJSC Power supply research institute (Moscow) for their input in terms of familiarization with up-to-date normative and technical documents in the sphere of hydraulic structures' safety and for their practical participation in the process of establishment of information-control system of Kirov dam technical condition monitoring on the Talas River.
11. To express gratitude to the Design and Technological Institute "Vodavtomatika and Metrology" for a well organized meeting.

LIST OF PARTICIPANTS
The Regional Meeting on the Cooperation in Dam Safety in Central Asia
Bishkek, Kyrgyzstan, September 19-20, 2011

	КАЗАХСТАН	KAZAKHSTAN	Contacts
1.	Рахимов Рахимжан Хайролла улы Начальник управления ШОС департамента обще азиатского сотрудничества МИД	Rakhimzhan Rakhimov Head of division SCO, Department of Central Asia Cooperation, Ministry of Foreign Affairs	Tel: +7 (7172) 72-01-25 Fax: +7-7172-72-01-16 E-mail: r.rakhimov@mfa.kz Web: www.sco2011.kz
2.	Айтбаева Шолпан Сакенова Главный эксперт международных договоров Министерства юстиции	Sholpan Aitbaeva Chief expert International Law Department, Ministry of Justice	Tel:+7 (7172) 74-09-48 Mob. +7-701-458-39-19 E-mail: aitbaeva.sh@minjust.kz
3.	Абдраимов Едиль Жаксылыкович Главный эксперт Департамента Предупреждения ЧС МЧС	Edil Abdraimov Chief expert Department of Emergency Prevention, Ministry for Emergency Situations	Tel:+7 (7172) 602104 Fax: +7 (7172) 944832 Mob.+7 (777) 2128441 E-mail: abdraimov@emer.kz
4.	Жампозов Омирбек Асылбекович Главный Инженер – Первый заместитель генерального директора Казводхоза КВР МСХ	Omirbek Zhampozov Chief Engineer – First Deputy General Director “Kazvodhoz” RSE, CWR MoA	Tel:+7 (7172) 39-69-79 Mob.+7 (777) 2128441 +7 701 6422827 E-mail: cwr_as@mail.ru
	КЫРГЫЗСТАН	KYRGYZSTAN	
5.	Узакбаев Чынгыз Макшевич Заместитель председателя Государственного комитета по водному хозяйству и мелиорации	Chyngyz Uzakbaev Deputy Chair of the State Committee on water economy and melioration	T. (+996312) 549083 E: c_uzakbaev@mail.ru
6.	Омокеев Айбек Талгатбекович Заместитель директора Международно-правового Департамента МИД	Aibek Omokeev Deputy Head of the International Law Department, Ministry of Foreign Affairs	T: (+996312) 62-66-43 E-m: aibekomokeev76@mail.ru
7.	Джолдошалиев Искендер Алымкулович Начальник отдела технической экспертизы и инвестиций Департамента водного хозяйства	Iskender Djoldoshaliev Head of division, Water Management Department	Tel. (+996312) 561637 Fax. (+996312)549094 Iskender1957@mail.ru
8.	Макаров Олег Степанович Директор ПКТИ Водоавтоматика и метрология	Oleg Makarov Director, Research institute Vodoavtomatika i metrologia”	Tel. (+996312) 541159 E-m: pkti@elcat.kg
9.	Зырянов Алексей Григорьевич Ведущий специалист Департамента эксплуатации и ремонта ОАО "Электрические станции"	Alexey Zyrianov Chief specialist, Department of Operation and Repair of JSC "Electricity stations"	Tel. (+996312) 463756 E-m: expo-es@infotel.kg Alexey.Ziryyanov@mail.ru
10.	Сыдыкова Зарема Специалист международного отдела Министерства юстиции	Zarema Sydykova Specialist, International Department Ministry of Justice	Tel. (+996312) 656476

11.	Абыкулов Советбек Султанбаевич Ведущий специалист отдела обследований опасных природных процессов МЧС	Sovetbek Abykulov Leading specialist MES	Tel. (+996312) 315782
12.	Авасбек Биримкулов Начальник управления Кировского водохранилища	Avasbek Birimkulov Head of Kirov reservoir Department	Tel: (+996778) 882468 0550 259967
13.	Озубекова Тинатин Начальник управления Ортокойского водохранилища	Tinatin Ozubekova Head of Ortotokoi reservoir Department	T. (+996312) 549085
ТАДЖИКИСТАН		TAJIKISTAN	
14.	Набиев Акбарходжа Озорович Директор института «Таджикгипроводхоз» Министерства мелиорации и водного хозяйства	Akbarkhoja Nabiev Director, Design Institute “Tadjikgiprovodkhoz”, Ministry of Amelioration and Water Management	E-mail: nabievtj@mail.ru nabievakbar@mail.ru Mob. (+992 93) 4888831
15.	Муродов Бахтовар Атташе Министерства иностранных дел	Bahtovar Murodov Attache Ministry of Foreign Affairs	E-mail: nabievtj@mail.ru nabievakbar@mail.ru Mob. (+992 93) 4888831
16.	Гафуров Джурабек Заместитель начальника управления международных связей Министерства юстиции	Djurabek Gafurov Deputy Head of International Department, Ministry of Justice	E-mail: nabievtj@mail.ru nabievakbar@mail.ru Mob. (+992 93) 4888831
17.	Сайфиддинов Шомахмад Старший мастер технадзора Нурекской ГЭС	Shomahmad Saifiddinov Senior specialist Nurek HPP	E-mail: nabievtj@mail.ru nabievakbar@mail.ru Mob. (+992 93) 4888831
ТУРКМЕНИСТАН		TURKMENISTAN	
18.	Баллыев Курбангельды Бегенчевич Полномочный представитель от Туркменистана в ИК МФСА	Kurbangeldy Ballyev Representative of Turkmenistan in the Executive Committee of IFAS	Tel:(+7727)3873431/33 Fax: (+7) E-mail: kballyev@mail.ru Mob.(+7701)7876966
УЗБЕКИСТАН		UZBEKISTAN	
19.	Талипов Шухрат Ганиевич Главный специалист Госводхознадзор	Shuhrat Talipov Chief specialist, Gosvodhoznadzor	Tel: (+799871)2667669 Fax.(+799871)2667166 E-mail: v-nadzor@sks.uz
20.	Нуримбетов Рахматилла Ибрагамович Первый Секретарь МИД	Rakhmatilla Nurinbetov First Secretary, Ministry of Foreign Affairs	Tel.(+799871)2334937 Fax.(+799871)2391517 E-mail: Gadoev_K@tiv.uz
21.	Усаков Даулетбай Туребаевич Заместитель управления эксплуатации ирригационных систем Минсельводхоза	Dayletbai Usakov Deputy head of department, Ministry of Agriculture and Water Management	Tel. (+799871)2413264 Fax.(+799871)2412262 E-mail: m/umarov@qsv.uz
ЭКСПЕРТЫ		EXPERTS	

22.	Стеклов Юрий Николаевич Консультант	Yuri Steklov Consultant	Tel. (+662) 9679536 E-mail: yuri.steklov@gmail.com Mob. (+668) 40332465
23.	Щербина Владимир Иванович Консультант	Vladimir Sherbina Consultant	Tel: (+7495)4927612 Email: oidcniies@niies.ru
24.	Сабитов Михаил Александрович Эксперт	Mikhail Sabitov Expert	E-mail: sabitoffms@mail.ru
25.	Радкевич Дмитрий Борисович Консультант	Dmitry Radkevich Consultant	Tel:(+7495)4935131 Fax: (+7495)4974050 ntc.energo@mail.ru dorad32@mail.ru
26.	Мариан Минарик Консультант, Словакия	Marian Minarik Consultant, Slovakia	E-mail: marian.minarik@stuba.sk
27.	Петер Паненка Директор Службы безопасности плотин, Словакия	Peter Panenka Director of the Dam Safety Service of Slovakia	E-mail: Peter.Panenka@vzb.sk
28.	Оролбаев Эркин Эргешевич Консультант	Erkin Orolbaev Consultant	Tel:(+996312)660452 erkin.orolbaev@gmail.com
	МЕЖДУНАРОДНЫЕ ОРГАНИЗАЦИИ	INTERNATIONAL ORGANIZATIONS	
	Европейская Экономическая Комиссия ООН	United Nations Economic Commission for Europe	
29.	Либерт Бу Региональный советник Отдел по окружающей среде	Bo Libert Regional Adviser Environment Division	Tel. (+4122) 9172396 Fax (+4122) 9170621 E-mail: Bo.libert@unec.org Mob. (+4179) 4446026/4180
	ПРООН	UNDP	
30.	Апасов Рыспек Национальный менеджер проекта ЕС/ПРООН по ИУВР в Кыргызстане	Rysbek Apasov Project Manager "Implementation of IWRM in Kyrgyzstan" EC/UNDP	T. +996 (312) 62 09 47 E: r.apasov@up.elcat.kg
	МЕЖДУНАРОДНЫЙ ФОНД СПАСЕНИЯ АРАЛА	INTERNATIONAL FUND FOR SAVING THE ARAL SEA	
31.	Ибатуллин Сагит Рахматуллаевич Председатель Исполкома МФСА	Saghit Ibatullin Chairman, Executive Committee of IFAS	Tel:(+7727)2607745 Fax:(+7727)3873431 E-mail: Saghit@inbox.ru , ec.ifas_almaty@mail.ru Mob.(+7701)5310225
32.	Оспанов Медет Оспанович Директор, Исполнительная Дирекция МФСА в Республике Казахстан	Medet Ospanov Director, Executive Board of IFAS in Kazakhstan	Tel. (+7727) 2986383/81/85 Fax (+7727) 2507717 E-mail: mospanov@inbox.ru Mob. (+7701) 7138219
33.	Казаков Мавлон Хакимович Член Исполкома МФСА Полномочный представитель от Республики Таджикистан	Mavlon Kazakov Representative of Tajikistan in the Executive Committee of IFAS	Tel./Fax:(+7727)3873431/33 E-mail: mavlon_kazakov@mail.ru Mob.(+7777)8279711
	ГЕРМАНСКОЕ ОБЩЕСТВО ПО МЕЖДУНАРОДНОМУ СОТРУДНИЧЕСТВУ	GIZ	
34.	Николаенко Александр Юрьевич Региональный советник программы GIZ	Alexander Nikolayenko Regional Advisor, EC- GIZ Programme	Tel:(+7727)3870628 Fax: (+7727)3873433 alexandr.nikolayenko@gtz.de

	ЮСАИД	USAID	
35.	Мерфи Джулин Руководитель проекта ЮСАИД	Juellyn Murphy Chief & Party RESET Project USAID	Joellyn.murphy@JetraTech.com
36.	Годоев Манучар Сотрудник проекта ЮСАИД	Manuchar Godoev Representative RESET Project USAID	Joellyn.murphy@JetraTech.com
37.	Трейнор Михаил Сотрудник проекта ЮСАИД	Michael Trainor Representative RESET Project USAID	Joellyn.murphy@JetraTech.com

**Regional meeting on dam safety cooperation
In Central Asia
September 19-20, 2011, Bishkek Kyrgyzstan**

*The meeting took place in conference hall of Dostuk hotel
Bishkek, Frunze street, 429 B*

AGENDA

Monday, September 19, 2011	
9.00 – 9.30	Registration of the participants
The First Plenary Session	
9.30 – 9.40	Opening of the Meeting. <i>(Chairman – Mr. Chyngyz Uzakbaev, deputy Chairman of the State Committee for Water Resources and Amelioration of the Kyrgyz Republic)</i> Welcoming statement on behalf of the Government of the Kyrgyz Republic. Welcoming statement on behalf of UNECE <i>Mr. Bo Libert, Regional Adviser, UNECE</i> Welcoming statement on behalf of IFAS <i>Mr. Sagit Ibatullin, Chairmen of EC IFAS</i>
09.40 – 10.00	Adoption of the agenda and election of officials Presentation of meeting agenda: <i>Mr. Bo Libert, Regional Adviser, UNECE.</i>
10.00-10.30	On implementation of the second stage of the project “Dam Safety in Central Asia: Capacity Building and Regional Cooperation”. <i>Mr. Bo Libert, Regional Adviser, UNECE.</i>
10.30-11.00	Coffee break
11.00-12.00	Results of implementation of the second stage of the project “Dam Safety in Central Asia: Capacity Building and Regional Cooperation” at regional and national levels. <i>Mr. Yuri Steklov, consultant; national project coordinators:</i> <ul style="list-style-type: none">– <i>Mr. Medet Ospanov, Kazakhstan;</i>– <i>Mr. Iskander Djoldoshaliev, Kyrgyzstan;</i>– <i>Mr. Akbarkhodja Nabiev, Tajikistan;</i>

	<ul style="list-style-type: none"> – <i>Mr. Kurbangelgy Ballyev, Turkmenistan;</i> – <i>Mr. Shukhrat Talipov, Uzbekistan.</i>
12.00 – 12.30	Discussion
12.30-14.00	Lunch
Working group session on harmonization of normative and technical documentation in dam safety sphere in Central-Asian countries <i>Chairman - Mr. Akbarkhodja Nabiev, Tajikistan</i>	
14.00 – 14.10	Introduction <i>Mr. Bo Libert, Regional Adviser, UNECE</i>
14.10 – 14.30	On the main results of working group activity on harmonization of normative and technical documentation in dam safety sphere. <i>Mr. Dmitry Radkevich, consultant</i>
14.30 – 15.30	On potential areas of working group's further activity. <i>Mr. Vladimir Scherbina, consultant, Russian Federation; Mr. Dmitry Radkevich, consultant</i>
15.30-16.00	Coffee break
16.00-16.20	Development of safety criteria for Kirov dam on the Talas River – element of creation of full-fledged hydraulic structures monitoring. <i>Mr. Vladimir Scherbina, consultant, Russian Federation</i>
16.20-16.40	Evaluation of safety level and condition of low-pressure hydraulic works. Opportunities of cooperation in this area in Central Asia. <i>Mr. M. Sabitov, consultant, Russian Federation</i>
16.40-17.40	Adoption of decisions, recommendations and a report of the Working Group
17.40 -18.00	Evaluation of stability of Shardarya reservoir and HPP. New tool. <i>Mr. Alexander Nikolaenko, GTZ</i>
Tuesday, September 20, 2011	
Working Group session on Development of Regional Agreement on cooperation in hydraulic structures' safety in Central Asia <i>Chairman – Mr. Medet Ospanov, Kazakhstan</i>	
9.30 – 9.40	Introduction <i>Mr. Yuri Steklov, consultant; Mr. Bo Libert, Regional Adviser, UNECE</i>
9.40 – 10.30	Review of activity related to draft Regional Agreement on Cooperation in the Area of Hydro technical Structures Safety in Central Asia.

	<i>Mr. Bo Libert, Regional Adviser, UNECE; Representative of EC IFAS</i>
10.30-11.00	Coffee break
11.00 -12.00	Reports of national project coordinators: <ul style="list-style-type: none"> – <i>Mr. Medet Ospanov, Kazakhstan;</i> – <i>Mr. Iskander Djaldoshaliev, Kyrgyzstan;</i> – <i>Mr. Akbarkhodja Nabiev, Tajikistan;</i> – <i>Mr. Kurbangelgy Ballyev, Turkmenistan;</i> – <i>Mr. Shukhrat Talipov, Uzbekistan.</i>
12.00 -12.30	Adoption of decisions, recommendations and a report of the Working Group
12.30-13.30	Lunch
<p>The second plenary session Support of cooperation in the sphere of Hydraulic Structures Safety by the international organizations and financial institutions. Prospects of cooperation development in Central Asia <i>Chairman – Mr. Shukhrat Talipov, Uzbekistan</i></p>	
13.30 – 13.40	IFAS input to development of cooperation in the sphere of hydraulic structures’ safety in the region. <i>Representative of EC IFAS</i>
13.40 -14.00	Approaches of Slovakia to dam safety and proposals on cooperation with Central-Asian countries. <i>Mr. Marian Minarik, Slovakia.</i>
14.00-15.00	<i>Presentations of the representatives of other international organizations.</i>
<p>Wrap up plenary session <i>Chairman – Mr. Kurbangelgy Ballyev, Turkmenistan</i></p>	
15.00 -15.30	Discussion of proposals on further development of dam safety project in Central Asia <i>Mr. Bo Libert, Regional Adviser, UNECE; Mr. Yuri Steklov, consultant; country representatives.</i>
15.30-16.00	Coffee break
16.00 -17.00	Review and adoption of decisions, recommendations and report of the meeting. Conclusion of the meeting.

Summary of project proposal
(version September 2011, revised)

Title	“Capacity-building for cooperation on dam safety in Central Asia”, phase 3
	<p>Project Objective To build trust between participating countries and promote economic, social and physical security by regional cooperation on dam safety.</p> <p>Project directions include</p> <ol style="list-style-type: none"> 1. Legislations and institutions at the national level: Improvement, implementation and enforcement of national legislation, institutional strengthening 2. Training on the safe operation of hydrotechnical installations: Capacity building of officials and experts as well as of support to development of national training programmes. 3. Regional cooperation: Support to development of harmonised technical documentation, exchange of relevant data and information, early warning systems to ensure preparedness in the case of increased risks for accidents and others. 4. Safer operations of individual dams: Support to bilateral cooperation to ensure the safety of individual dams or dam systems on transboundary rivers.
Products:	<ol style="list-style-type: none"> 1. Improved national legislation and strengthened institutions responsible for the safety of hydro technical installations. 2. Improved capacity of national experts and officials on the safety of hydrotechnical installations that would contribute to: <ol style="list-style-type: none"> i. High quality of national training programmes ii. The further development and implementation of national legislation and technical norms iii. The safe operation of individual dams 3. Improved regional cooperation.

	4. Increased safety of individual dams and development of confidence for active cooperation on such dams between neighbouring countries in transboundary river basins.
Partner organisation	UNECE in cooperation with UNDP and OSCE. The UNDP and OSCE involvement will mainly be in connection with Output 4.
Implementing organisation	UNECE as leading agency in cooperation with UNDP and OSCE
Project /Activity Manager	Bo Libert, Regional Adviser on Environment Environment Division UN Economic Commission for Europe Palais des Nations CH-1211 Geneva 10 Telephone: 0041-22-917 23 96 Telefax: 0041-22-917 06 21 bo.libert@unece.org
Local partner	The Executive Committee of the International Fund for the Saving of the Aral Sea (EC-IFAS) is an indispensable partner with the necessary mandate needed for project implementation. National institutions in CA countries responsible for the safety of hydro technical installations – Main partners are: <ul style="list-style-type: none"> • Committee for water resource, Ministry of Agriculture, Kazakhstan • State Committee for Water Management and Melioration, Kyrgyzstan • Ministry of Melioration and Water Resources, Tajikistan • Ministry of Melioration and Water Resources, Turkmenistan • Water Control Facilities Committee “Gozvodhoznadzor”, Uzbekistan
Local partner’s role	EC-IFAS: Coordination on the regional level, political support National partners: Coordination on the national level, political support, Execution of national activities, Financial support – co-funding of national activities
Project duration	1 January 2012 to 31 December 2014
Total budget in USD	850,000 USD
ENVSEC Source of funding	Finnish funds with co-funding from Russia, Slovakia and others. Negotiations on-going.
Other sources of funding	Russian Federation (TBC) about 100,000 USD and other

	interested partners such as Slovakia with expertise. Dialogue with potential partners is on-going.
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Annex 4

**Statement
Of the participants of the regional meeting on dam safety cooperation in Central Asia
Bishkek, September 20, 2011**

The participants of the regional meeting

1. Approve activity of UNECE, IFAS and other partner organizations related to implementation of Phase II “Dam Safety in Central Asia: Capacity Building and Regional Cooperation Project” in 2008 – 2011.
2. Note with satisfaction that as a result of this phase implementation tangible results have been achieved in terms of enhancement of normative and legal framework of member countries in the area of state regulation in hydraulic structures’ safety. In CA countries, legal frameworks and institutional forms of state regulation in this sphere are being improved.
3. Also note that the project made significant contribution to enhancement of cooperation in the sphere of hydraulic structures’ safety between the countries of the region. Organizations from each country involved in hydraulic structures’ safety, have established close contacts between each other; regional level activities are being carried out to raise awareness of top management and to upgrade qualification of the personnel that enables safe operation of hydraulic structures.
4. Highly appreciate enhancement of contacts between the countries of Central Asia and the international community in terms of enabling safety of hydraulic structures. Some international organizations, technical assistance organizations and the international banks cooperate both in the relevant legal and institutional reforms in stakeholder countries of the project, and in improvement of technical condition of large hydraulic structures.
5. Welcome entry of Tajikistan and Uzbekistan in the International Commission for Large Dams (ICID) and urge national ICID committees of these countries to cooperate and enable cooperation with national committees of other CA countries provided that those countries will join ICLD.
6. Express their gratitude to the Governments of Finland, Russian Federation and Germany for their intellectual and financial support to implement Phase II of the project.
7. Note with satisfaction plans of Russian Federation and UNECE Environment and Security Initiative (ENVSEC) to provide support to implement some program elements within the frame of Phase III of dam safety project in Central Asia.
8. Request the international community to continue and extend support provided to the states of Central Asia to further develop cooperation in the area of hydraulic structures’ safety.
9. Deeply appreciating support and leading role of UNECE in dam safety project implementation in Central Asia, look forward to further support and maintaining the leading role in implementation of future project activity in this sphere.

The list of the main materials and presentations made during the regional meeting on dam safety cooperation in Central Asia held on September 19-20, 2011 in Bishkek, Kyrgyzstan
(These materials will be posted on web page of the project on UNECE website)

AGREEMENT BETWEEN THE GOVERNMENT OF THE REPUBLIC OF KAZAKHSTAN, THE GOVERNMENT OF THE KYRGYZ REPUBLIC, THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN, THE CABINET OF MINISTERS OF TURKMENISTAN AND THE GOVERNMENT OF THE REPUBLIC OF UZBEKISTAN ON COOPERATION IN THE SPHERE OF HYDRAULIC STRUCTURES' SAFETY. (Draft as of September 24, 2009)

MODEL TECHNICAL REGULATION "ON SAFETY OF HYDROTECHNICAL STRUCTURES".
(Version as of September 19, 2011)

Bo Libert

ON IMPLEMENTATION OF PHASE II OF "DAM SAFETY IN CENTRAL ASIA: CAPACITY BUILDING AND REGIONAL COOPERATION PROJECT"

Yuri Steklov

RESULTS OF IMPLEMENTATION OF PHASE II OF "DAM SAFETY IN CENTRAL ASIA: CAPACITY BUILDING AND REGIONAL COOPERATION PROJECT" AT REGIONAL AND NATIONAL LEVELS

Bo Libert

HARMONIZATION OF LEGAL AND NORMATIVE-TECHNICAL DOCUMENTATION ON HS SAFETY IN CENTRAL-ASIAN COUNTRIES

Vladimir Scherbina

UPDATING NORMATIVE AND TECHNICAL DOCUMENTS USED TO CONTROL HYDRAULIC STRUCTURES' SAFETY TO UNIFY THOSE USING MODERN DEVICES AND METHODS. Within the frame of the list of potential areas of development to enable safety of hydraulic structures in Central-Asian countries

Vladimir Scherbina

DEVELOPMENT OF SAFETY CRITERIA FOR KIROV DAM ON THE TALAS RIVER – ELEMENT OF FULL-FLEDGED MONITORING CREATION FOR HS

Kaganov G.M., Bolkov V.I., Sabitov M.A

METHODS TO COLLECT AND ANALYZE INFORMATION FOR MANAGEMENT DECISIONS ENABLING SAFETY OF HYDROTECHNICAL STRUCTURES OF LOW-PRESSURE WATERWORKS OF CLASS IV

Alexander Nikolaenko

PROTOCOL OF HYDROPOWER ENGINEERING SECTOR SUSTAINABILITY ASSESSMENT. EVALUATION OF SHARDARYA RESERVIOR AND HPP, KAZAKHSTAN

Peter Panenka, Marian Minarik, Boris Minarik

DAM SAFETY IN SLOVAKIA AND POSSIBILITIES OF COOPERATION WITH CENTRAL ASIA COUNTRIES

THE LIST OF POTENTIAL COOPERATION AREAS TO ENABLE HYDRAULIC STRUCTURES' SAFETY IN CENTRAL ASIA (WITH ADDITIONS PROPOSED DURING THE MEETING).