

THE UNITED NATIONS
ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC
ECONOMIC COMMISSION FOR EUROPE

Report

The Seminar on Ensuring the Safety of Small Hydrotechnical Installations (HTI) in the countries of Central Asia

(30 June – 2 July 2014, Moscow, Russia)

I. ORGANISATION

1. The Seminar on Ensuring the Safety of Small Hydrotechnical Installations (HTI) in Central Asia was held on 30 June – 2 July 2014 in Moscow, Russia. The event was organised by the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) and the United Nations Economic Commission for Europe (ECE) with financial support from the Government of the Russian Federation.

1. Objectives of the seminar

2. The objectives of the event were to develop general (uniform) approaches towards assessment of the safety of Class IV low pressure hydro-technical systems, and to exchange the best subregional experience gained in this field in Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan and Russia. In addition, the seminar aimed to develop recommendations on expanding cooperation in the region's water resources management and to share relevant experience.

2. Participants

3. The seminar was attended by more than 30 specialists and experts, including 19 guests from Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan. Reports were delivered by representatives of a number of Russian ministries, research institutions and universities. A complete list of participants is attached to this report (Annex 2).

3. Opening of the seminar

4. Mr. Nikolay Pomoshchnikov, Head of the ESCAP Subregional Office for North and Central Asia, greeted the participants of the meeting. He outlined the main goals and tasks of the seminar and wished the participants successful and productive work.

5. In his greeting Mr. Bo Liebert, Regional Adviser for Environment of the UN ECE, stressed the importance of the seminar's topic and said that the seminar was to make a valuable contribution towards enhancing HTI safety in Central Asia.

6. Mr. Shukhrat Talipov, Plenipotentiary Representative of the Republic of Uzbekistan in the Executive Committee of the International Fund of Aral Saving (IFAS), said that cooperation in enhancing dam safety in Central Asia is one of the main directions of the 3rd Aral Sea Basin Programme (ASBP-3).

7. Mr. Aleksandr Mironenkov, Head of Technical Assistance of the Eurasian Development Bank (EDB), said that the seminar is an important measure to ensure safe operation of dams in Central Asia and voiced the Bank's intention to continue its support for regional cooperation to this end.

8. Ms. Natalia Karmazinskaya, 3rd Secretary of the International Organisations Department, Ministry of Foreign Affairs of Russia, addressed the participants on behalf of the host and wished them interesting and fruitful discussions.

4. Programme

9. The Seminar on Ensuring the Safety of Small Hydrotechnical Installations (HTI) in Central Asia is attached to this report (Annex 1).

II. PRESENTATIONS AND DISCUSSIONS

10. The Seminar began with an overview of efforts to ensure the safety of low pressure HTI in Central Asian countries. Reports by Mr. Ilyas Kazykeyev (Kazakhstan), Ms.

Zhyldyzkan Ashymbayeva (Kyrgyzstan), Mr. Parviz Yakhyayev (Tajikistan); Ms. Guldzhama Nurmukhammedova (Turkmenistan) and Mr. Zafar Irisboyev (Uzbekistan) stressed the need to improve the respective national laws, organisational mechanisms and technical rules and standards in this area. All the speakers elaborated on the need to exchange experience and to hold similar seminars and roundtables on a regular basis.

11. Mr. Vladimir Pimenov, Head of the division for supervision of hydropower plants and hydraulic engineering structures at the Federal Environmental, Industrial and Nuclear Supervision Service Rostekhnadzor, elaborated on the organisational issues of dam safety supervision in Russia and related problems.

12. Ms. Inna Kaliberda, Deputy director for Science in RFBI “Science and Technical Centre for Energy Security”, spoke on the main principles of controlling and supervising activities aimed at ensuring the safety of class 4 low-head water developments in circumstances where design documentation is incomplete or unavailable.

13. Mr Vladimir Volkov, an ESCAP consultant, elaborated on a methodology of collecting and analysing data on the safety of dams and low pressure HTIs. He showed photos and videos to illustrate the main problems and solutions relating to the prevention of dam failures. Representatives of Central Asian spoke in favour of applying such a methodology in their home countries.

14. The participants heard reports on various issues of dam safety in Central Asia and Russia. These included the development and improvement of a legal framework for public regulation of dam safety, building of dam monitoring systems, development and operation of information and diagnostic systems for safety control, and other pivotal aspects of dam status monitoring.

15. The closing session of the seminar was dedicated to future cooperation in ensuring dam safety in Central Asia. The prospects for these activities were outlined in reports by representatives of the UN ECE, Executive Committee of the IFAS, EDB and ESCAP.

16. During discussions about the presented reports, the participants exchanged their opinions on the current status of safety of low pressure HTIs in Central Asia and the applicability of the proposed suggestions by experts.

17. The participants visited a dam in the Krasnogorsky District, Moscow Region, where they had an opportunity to familiarise themselves with a safety evaluation technique based on the *Methodology of Collecting and Analysing Data on the Safety of Dams and Low Pressure HTIs* proposed by an ESCAP consultant. During a practical exercise, the participants received answers to their questions relating to dam safety evaluation.

18. The goals and tasks of the training were fully achieved.

III. CONCLUSIONS AND RECOMMENDATIONS

19. The participants:

- (1) evaluated the completed seminar an important element of cooperation between Russia and Central Asian countries in ensuring safe operation of low-head water developments and spoke in favour of continuing such cooperation by holding similar events for exchanging experience and upgrading skills on a regular basis, and providing consultations on various aspects of safe operation of small dams;

- (2) bearing in mind the importance of ensuring the safety of low pressure HTIs, recommended that this activity should be given closer attention in the future, based on support from international organisations and financial institutions;
- (3) indicated strong interest in the Methodology and expressed their wish to continue their efforts to enhance small dam safety in the region, which would contribute to the unification of hazard assessment criteria in the region; and
- (4) thanked the organisers and speakers for excellent performance, and expressed their wish to attend such training and professional cooperation events at a subregional level;
- (5) requested the ESCAP, ECE and potential donors to consider providing support for cooperation between Central Asian countries and Russia in ensuring safe dam operation, improving national legal frameworks, skills upgrading and other efforts which are named as priority tasks under ASBP-3;
- (6) thanked the ESCAP for organising the workshop and the opportunity to discuss the *Methodology of Collecting and Analysing Data on the Safety of Dams and Low Pressure HTIs*;
- (7) thanked the Government of the Russian Federation for financing the event and expressed their wish that Russia's intellectual and financial support for cooperation in ensuring dam safety in Central Asia should be continued;
- (8) thanked the management of the Russian Academy of National Economy and Public Administration under the President of the Russian Federation (RANEPA) for their support with organizing the seminar.

Programme

The Seminar on Ensuring the Safety of Small Hydrotechnical Installations (HTI) in Central Asia

(30 June – 2 July 2014)

Moscow, Russia

30 June 2014, Monday

08.30-09.00 **Registration of participants**

09.00-09.30 **Opening**

Moderator: Mr. Medet Ospanov (Kazakhstan)

Welcoming addresses:

- *Mr. Nikolay Pomoschnikov, UN ESCAP*
- *Mr. Bo Libert, UN ECE*
- *Mr. Shukhrat Talipov, IFAS*
- *Mr. Aleksandr Mironenkov, EDB*
- *Ms. Natalia Karmazinskaya, Ministry of Foreign Affairs of Russia*

Introduction of participants and the seminar's programme

09.30-10.50 **Session 1: Overview of Efforts to Ensure the Safety of Small Dams in Central Asia**

Moderator: Ms. Seidekul Mambetzhanova

- *Mr. Ilyas Kazykeyev (Kazakhstan);*
- *Ms. Zhyldyzkan Ashimbayeva (Kyrgyzstan);*
- *Mr. Parviz Yakhyayev (Tajikistan);*
- *Ms. Guldzhamal Nurmukammedova (Turkmenistan);*
- *Mr. Zafar Irisboyev (Uzbekistan).*

10.50-11.40 **Session 2: Small Dam Safety in the Russian Federation**

Moderator: Mr. Saodatkadam Maskayev (Tajikistan)

Report: Public Supervision of Dam Safety in the Russian Federation

- *Mr. Vladimir Pimenov, Head of the division for supervision of hydropower plants and hydraulic engineering structures at the Federal Environmental, Industrial and Nuclear Supervision Service Rostekhnadzor*

- 11.40-12.00** **Coffee break**
- 12.00-12.30** **Session 2 (continuation): Dam Safety in the Russian Federation**
Moderator: Mr. Saodatkadam Maskayev (Tajikistan)
- Report: The Main Principles of Controlling and Supervising Activities Aimed at Ensuring the Safety of Class IV Low Pressure HTIs in Circumstances Where Design Documentation is Incomplete or Unavailable**
- *Ms. Inna Kaliberda*, Deputy director for Science in RFBI “Science and Technical Centre for Energy Security”
- 12.30-13.30** **Session 3: Safety Assessment at Small Dams**
Moderator: Mr. Nikolay Pomoshchnikov.
- Report: The Methodology of Assessing the Safety of Class IV Low Pressure HTIs: Part 1.**
- *Mr. Vladimir Volkov, consultant (1 h 00 min)*
- 13.30-14.30** **Lunch**
- 14.30-15.30** **Session 3 (continuation): Safety Assessment at Small Dams**
Moderator: Mr. Nikolay Pomoshchnikov.
- Report: The Methodology of Assessing the Safety of Class IV Low Pressure HTIs: Part 2.**
- *Mr. Vladimir Volkov, consultant (1 h 00 min)*
- 15.30 – 16.00** **Coffee break**
- 16.00- 17.00** **Session 3 (continuation): Safety Assessment at Small Dams**
Moderator: Mr. Nikolay Pomoshchnikov.
- Report: The Methodology of Assessing the Safety of Class IV Low Pressure HTIs: Part 3.**
- *Mr. Vladimir Volkov, consultant (1 h 00 min)*
- 17.00-18.00** **Session 4: Possibility of Applying the Methodology of Assessing the Safety of Class 4 Low-Head Water Developments in Central Asia**
Moderator: Mr. Bo Libert
- Reports by representatives of Central Asian countries*
- Discussion and Day 1 summary

1 July 2014, Tuesday

09.00-11.00 **Session 5: The Methodology of Assessing the Safety of Class 4 Low-Head Water Developments: Conclusion**

Moderator: Mr. Nikolay Pomoshchnikov

Mr. Vladimir Volkov, consultant (2 h 00 min)

11.00 – 11.20 **Coffee break**

11.20 – 12.30 **Session 6: The Issues of Ensuring Dam Safety in the Russian Federation and Central Asia**

Moderator: Mr. Erkin Orolbayev

Report: Assessment of the Safety and Status of Low Pressure HTIs: Opportunities for Cooperation in Central Asia

– *Mr. Mikhail Sabitov*

Report: Justification of Existing Small Hydropower Plants: Prospects for Future Use

– *Mr. Aleksandr Yurchenko*, Head of Market Monitoring, Research Institute of Power Structures RusGidro

Discussion

12.30 – 13.30 **Session 6 (continuation): The Issues of Ensuring Dam Safety in the Russian Federation and Central Asia**

Moderator: Mr. Erkin Orolbayev

Report: The Legal Framework and Organisational Mechanisms for Ensuring Dam Safety in Kazakhstan

– *Mr. Igor Petrakov*, independent expert in national water law and water use and management

Report: Building a Monitoring System at International Dams on the Chu and Talas Rivers

– *Mr. Oleg Makarov*, Director of the Design and Technology Institute Vodavtomatika i metrologiya

Discussion

13.30 – 14.30 **Lunch**

14.30 – 16.00 **Session 6 (continuation): The Issues of Ensuring Dam Safety in the Russian Federation and Central Asia**

Moderator: Mr. Oleg Makarov

Report: UN ECE Water Convention and the Issues of Dam Safety in Central Asia

– *Mr. Sagit Ibatullin*, Deputy Chairman of the UN EEC Water Convention Implementation Committee

Report: Mr. Erkin Orolbayev, consultant

Report: Improving and Applying the Methodology of Appraising the Safety of Class 4 Low-Head Water Developments in Central Asia

– *Mr. Shukhrat Talipov*, IFAS

Discussion

16.00 – 16.20 **Coffee break**

16.20 - 17.30 **Session 7: Further Cooperation in Ensuring Dam Safety in Central Asia**
Moderator: Mr. Zafar Irisboyev (Uzbekistan)

Report: The Main Directions of Cooperation in Dam Safety in Central Asia within the Framework of the UN ECE Project Activity
– *Mr. Bo Libert, UN ECE*

Report: Enhancing Cooperation in Ensuring Dam Safety in Central Asia within the Framework of ASBP-3
– *Mr. Shukhrat Talipov, IFAS*

Report: Experience of Organising Dam Safety Trainings at the International Educational Centre
– *Mr. Medet Ospanov, Director, Executive Directorate of the International Aral Saving Fund in Kazakhstan*

Report: Mr. Aleksandr Mironenkov, EDB

17.30-18.00 **Session 8: Conclusions**
Mr. Nikolay Pomoshchnikov, ESCAP

2 July 2014, Wednesday

10.00-10.15 **Preparation for a field trip**

10.15 – 11.00 **Travel to a dam in the Krasnogorsk district, Moscow Region**

11.00-13.00 **Viewing a dam and a practical exercise**

13.00-14.00 **Return to the hotel**

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_4873

