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25th Meeting of the Permanent Expert Group for Flood Protection REPORT FROM THE MEETING

Zagreb, 27-28 November 2014

Venue: Premises of the International Sava River Basin Commission, Kneza Branimira 29/II, Zagreb

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I. ATTENDANCE

Experts from Slovenia, Croatia, Bosnia and Herzegovina and Serbia attended the meeting. Additionally, an expert of the Institute for Water of the Republic of Slovenia and a representative of the U.S. Army Corps of Engineers, also participated at the meeting at specific agenda items.

The list of participants is annexed to this report.

II. CHAIRMANSHIP

Mr. Dragan Zeljko chaired the meeting.

III. ADOPTED AGENDA

1. Opening of the meeting

- 1.1. Welcome and opening remarks by the PEG FP Chairman
- 1.2. Adoption of the Agenda

2. ISRBC activities between the two PEG FP meetings

- 2.1. General presentation on the ISRBC activities
- 2.2. Overview of activities related to work of PEG FP
- **3.** Overview of the activities related to implementation of the Floods Directive in the Parties to the FASRB
 - 3.1. Slovenia
 - 3.2. Croatia
 - 3.3. Bosnia and Herzegovina
 - 3.4. Serbia

4. USACE support – 2nd phase

- 4.1. Introduction (ISRBC & USACE representatives)
- 4.2. Discussion on the tasks and implementing arrangements
- 5. Improvement of Joint Flood Management Action in the Sava River Basin ("WBIF project")
 - 5.1. Information on project
 - 5.2. Discussion on the project activities

6. Program for development of the FRMP in the Sava River Basin

- 6.1. Introduction
- 6.2. Preparation of the 2^{nd} draft Program
- 6.3. Next steps

7. Joint ICPDR-ISRBC report on May 2014 flood

- 7.1. Review of the first draft
- 7.2. Next steps
- 8. HM data exchange 8.1. Sava HIS proposal
- 9. Other issues

IV. DISCUSSION, RECOMMENDATIONS AND CONCLUSIONS

AD.1. OPENING OF THE MEETING

1.1. Welcome and opening remarks by the PEG FP Chairman

Mr. Dragan Zeljko opened the meeting and welcomed the participants.

1.2. Adoption of the Agenda

The Group adopted the proposed agenda of the 25th meeting (*Doc.Ref.No: 3-14-19/2-2*), with agenda items presented in Part III of this report.

AD.2. ISRBC ACTIVITIES BETWEEN THE TWO PEG FP MEETINGS

2.1. General presentation on the ISRBC activities

The Secretary, Mr. Dejan Komatina, informed the PEG FP on the activities of the Sava Commission since the last, 24th PEG FP meeting. He informed the PEG FP on the most important meetings and events, status of the projects, activities and protocols, publications, and upcoming meetings and events.

He also informed the PEG FP that *the Protocol on Flood Protection to the FASRB* have been ratified by Serbia few days before this meeting. He also recalled that just Slovenia has not ratified the *Protocol* yet and added that countries that had previously ratified the agreement, as well as those that will do it soon, in accordance with the Protocol should **nominate the competent bodies and contact persons** for the implementation of the Protocol.

He particularly emphasized that the activities of the ISRBC, in the period from the last meeting, focused on a flood event that occurred in May 2014, with following main results:

- Disclosure of information on the consequences and **appeal for assistance** for the member countries affected by the floods (Croatia, Bosnia and Herzegovina, Serbia);
- **Urgent meetings:** Strategic ISRBC meeting (Zagreb, 9 Jun 2014) and Ministerial meeting (Belgrade, 16 Jun 2014);
- Sava Newsflash No. 13, dedicated to flood event;
- Sava Day 2014, Cycling tour and Rowing regatta along the Sava River, **cancelled** and Youth Parliament **postponed**.

The Secretary informed the PEG that the 35th and 36th Sessions of the Sava Commission were held on **July 1 and October 14, respectively**, with following main points:

- Chairmanship taken over by Slovenia (for period 2014-2017);
- Preparation of the 5th Meeting of the Parties (Zagreb, 2 Dec 2014);
- Discussion on **amendments** (previously initiated on the Ministerial meeting, 16 June 2014) to the FASRB and the Protocol on Flood Protection;
- Appointment of the new official of the Secretariat (Mr. Mirza Sarač);

Out of several projects implemented in the frame of the Sava Commission, Mr. Komatina emphasized those most related to work of the PEG FP:

- Sediment Management Estimation of sediment balance for the Sava river finished (Towards practical guidance for sustainable sediment management using the Sava River Basin as a showcase has been **finalized** and **published** in all official languages of the ISRBC) and **application for further steps** submitted to CEI;
- Water and Climate Adaptation Plan for the Sava River Basin (WATCAP) is at its final stage when guidances are prepared, and final events organized (Workshop and Training Course for Stakeholders - Using HEC-HMS hydrological model of the Sava River Basin). The project shall be finalized during January 2015;

- *Sava GIS establishment* - Phase 1 is still under implementation and it is in the status of the procurement procedures for the purchase of software and for selection of consultants for establishment of core SavaGIS services;

Mr. Komatina also announced next meetings and emphasized *5th Meeting of the Parties* planned for 1st of December 2014 (to be held in Zagreb, hosted by the Government of the Republic of Croatia).

More information on other activities and events can be found in presentation (AD.2.1_Presentation_ISRBC_PEG FP 25.ppt).

2.2. Overview of activities related to work of PEG FP

Mr. Zeljko briefly informed the PEG FP about results of important meetings that took place after PEG FP 24. He emphasized participation at *Technical meeting about May 2014 Flood Recovery* in DG Enlargement, 8 Oct 2014 (assistance to B&H and Serbia) and participation at the *Regional conference on floods prevention and management* on 24 Nov 2014 in response to the consequences of severe weather and devastating floods that hit Bosnia and Herzegovina and Serbia. After that Mr. Zeljko informed the PEG FP on the status of projects and project proposals as follows:

- Joint PFRA report accepted by the ISRBC at the 35th Session of the ISRBC and published at: <u>www.savacommission.org/publication</u> but without data from Republika Srpska because official data were still not submitted to the ISRBC.
- Program for preparation of the FRM Plan is upgraded after PEG FP 24 it should be prepared and submitted to ISRBC in February 2014 and adoption expected by mid of 2015. More detailed report on the program is given in Agenda item 6.
- Improvement of Joint Flood Management Actions in the Sava River Basin WBIF project was approved in June 2014. More details are given in Agenda item 5.
- USACE -2^{nd} phase of support is started. More details are given in Agenda item 4.
- Preparation of the Joint ICPDR-ISRBC report on May 2014 flood. More details are given in Agenda item 7.
- Preparation of a technical proposal for the establishment of Sava HIS and upgrading the system for overview of hydrological and meteorological data and further investigation to connect to Sava GIS. More details are given in Agenda item 8.

Mr. Zeljko also informed the PEG FP that the document - *Policy on the Exchange of Hydrological and Meteorological Data and Information in the Sava River Basin*, has been finalized and **signed** by NHMSs (6/6) and water agencies (2/4) (July 01 Ljubljana). The next steps will be consideration of possibility to amend the *Policy document* to also include the obligation of exchange of information prior to and during active flood defence.

A detailed&complete overview of the activities performed and planned in the frame of ISRBC has been provided in the meeting document AD.2_Zaštita od poplava_aktivnosti Savske komisije_21-11-2014.

AD.3. OVERVIEW OF THE ACTIVITIES RELATED TO IMPLEMENTATION OF THE FLOODS DIRECTIVE IN THE PARTIES TO THE FASRB

3.1. Slovenia

Mr. Luka Štravs presented the activities in the implementation of the EU Floods Directive in Slovenia and the current status in development of the *Flood Risk Management Plan* (Načrt zmanjševanja poplavne ogroženosti). He reminded PEG that the PFRA has been completed, APSFR have been identified and flood maps have been already prepared for 38 APSFR. Accordingly 17 FRM plans shall be prepared at the sub-basin level and later joined into two FRM plans – for the Danube River Basin and for the Adriatic Sea Basin.

More information is available in presentation (AD.3.1_Nacrt Zmanjsevanja Poplavne Ogrozenosti.ppt and AD.3.2_Atlas Okolja_Nove poplavne evidence.ppt).

Mr. Štravs also informed PEG about the participation of Slovenia in the assessment of May 2014 flood damage and the preparation of Report and hydrological model of the Bosna River Basin for which he submitted the link to download:

http://www.arso.gov.si/vode/poro%C4%8Dila%20in%20publikacije/Koncno%20porocilo_Analiza%2 0poplave%20maja%202014%20za%20porecje%20reke%20Bosne.pdf

After that he announced the special session and presentation of Ms. Špela Petelin, Institute for Water of the Republic of Slovenia. She presented the method for assessing the benefits of measures for protection from floods used in Slovenia.

More information is available in her presentation (*AD.3.3_Metoda za procjenu koristi mjera za zastitu od poplava_IfW_Slo.ppt*).

3.2. Croatia

Mr. Danko Biondić and Mr. Marijan Babić presented the activities in the implementation of the EU Floods Directive in Croatia. PFRA has been completed and APSFR have been identified at the level of settlements. Flood maps are available for some APSFR – provided through recently completed TWINNING project or originating from earlier studies. Flood risk management plan should be completed until 22 Dec 2014 and shall be integrated into River Basin Management Plan and completed by the mid of 2015. Economic analyzes are currently in preparation. Mr. Babić noted that the measures achieving the objectives (damage reduction) are to be analyzed for six basins (until 22 Dec 2014) and for the other basins by the end of planning period 2021.

3.3. Bosnia and Herzegovina

Ms. Aida Bezdrob presented the activities in the implementation of the EU Floods Directive in Bosnia and Herzegovina. In Federation of B&H, the PFRA and identification of the APSFR have been completed. Flood maps shall be prepared by 2015, and so far maps have been completed for the rivers of first category (by Law): Una (3 APSFR), Sana (2 APSFR), Bosna (5 APSFR), Usora (1), and currently the maps are prepared for Vrbas (2 APSFR), Bosna (1 APSFR), Drina (2 APSFR) and Tinja (1 APSFR), all the rivers of the first category. FRMP shall be prepared by 2017. More information is available in presentation (*AD.3.4_Izrada mapa rizika i mapa opasnosti od poplava na vodotocima I kategorije u Federaciji BiH.ppt*).

In the Republika Srpska PFRA is finalized and the results will be soon submitted to ISRBC.

3.4. Serbia

Ms. Radovanka Pavlović presented the activities in the implementation of the EU Floods Directive in Serbia. PFRA and identification of the APSFR have been completed. Terrain data for flood maps are made but are of unsatisfactory precision. There are plans to work on a new one, likely based on Lidar technology. Flood Risk Management Plan shall be prepared for Serbia and for river basin districts by 2016 using the elements from Danube Plan.

AD.4. USACE SUPPORT – 2ND PHASE

Mr. Zeljko reminded the group of the results of the first phase and presented hydraulic model of the Sava River (Čatež-Belgrade), which was developed by the Secretariat after formal end of the 1st phase of cooperation. He stressed that the model could serve as a starting point for the 2nd phase, emphasizing that a new HEC-RAS is being developed with 2D capabilities which will allow for much enhanced modelling. He expects that the current Sava model, after certain additional adjustments, will be delivered to the Parties by the end of FY 2014.

After that Mr. Zeljko gave the floor to Mr Loren Wehmeyer, U.S. Army Corps of Engineers (Costal and Hydraulics Laboratory) who will act as the Project Manager of the 2^{nd} phase on behalf of the USACE. Mr Wehmayer briefly introduced his organization and presented the tentative timetable of the work in the 2^{nd} phase of cooperation. Details can be seen in his presentation: *AD.4.3_ Wehmeyer_Sava.ppt.*

After his presentation the PEG discussed the next steps, with following general conclusions:

- USACE will reconsider the scope of work regarding hydrologic (HEC-HMS) model development, taking into account the model developed in the frame of WATCAP project (which was submitted to the USACE representatives after the meeting);
- Having in mind the urgent needs after the flood in May 2014, as well as a significant amount of data collected thereafter, a possibility to furtherly model the Bosna River, with addition of initial flood forecasting capabilities, shall be investigated in the contact with the USACE;
- Depending on available resources, as well as national plans of Croatia and B&H, the same as above should be considered for the Una River;
- Regarding hydraulic modelling, the PEG recalled the conclusions from the 24th meeting of the group related to residual risk modelling and expressed the need for analysis of levee breaches along the Sava River, on the actual locations of breaches occurred in May 2014;
- Taking into account the amount of data needed for flood impact analysis (FIA), the PEG considers that the analysis should not be the part of the 2nd phase of cooperation;
- Due to the very tight deadlines set for the project which are presented in the ToR, PEG has asked the representative of the USACE to consider deadlines once again and set more realistic dates pursuant to the obligation to submit data from individual institutions of the countries and possible losing of time on this and similar delays.

For successful implementation of the above tasks, the countries have to provide the following data:

- Data on May 2014 levees breaches: exact locations; modes of breaches; dimensions, flooded area etc.;
- Available terrain data for the floodplains;
- Available hydrologic and hydraulic models with original data, especially those for Bosna (and Una) River;
- Other data as requested by the ToR;

In addition, the institutions of the countries should nominate the responsible persons for the project implementation (ToR-Beneficiary institutions in the Sava River Basin).

AD.5. IMPROVEMENT OF JOINT FLOOD MANAGEMENT ACTIONS IN THE SAVA RIVER BASIN ("WBIF PROJECT")

Mr. Zeljko informed the PEG as follows:

- The project was officially approved in June 2014;
- It comprises of the two components : Sava FRM Plan and Sava FFW System, where the 1st component costs 0.2 mil EUR and the 2nd component costs 1.8 mil EUR;
- The preparatory mission took place on Sep 29 Oct 3, 2014. The mission comprised of Mr. G. Alaerts (WB Task Team Leader), Mr. E. Todini (Consultant, Hydrology and Flood Forecasting), Mr. A. Verwey (Consultant, Structural and Non-Structural Flood Management), and for the ISRBC Mr. D. Komatina, Mr. D. Zeljko, Mr. S. Grošelj. Meetings were held in Slovenia, Croatia, Bosnia and Herzegovina and Serbia. Representatives of all relevant institutions attended the meeting (including the representatives of Montenegro).
- On the concluding meeting between the Secretariat and the WB in Belgrade (October 3rd) the time schedule for the various activities has been defined as follows:
 - November 18: first draft of the ToR;
 - Advertisement for project short listing: mid February 2015;
 - Completion of shortlist: April 1, 2015;
 - Submission of proposals: May 15, 2015.

A detailed information on the preparatory mission and its results is available in documents (AD.5_141102-Accepted changes-Aide Memoire Preparatory Mission Sava Basin.*docx*)

After the mission completed ISRBC Secretariat expected final Aide Memoire and ToR until 18 November as agreed. But draft ToR was not submitted at all and Aide Memoire was submitted on the 26th November (AD.5_Sava flood2014_Aide Memoire.docx).

Although ToR wasn't delivered, the PEG has analyzed the needs in the process of preparation of the Sava FRMP which could be realized through the WBIF Component 1 (budget: 0,2 mil. Euro).

The PEG concluded that following actions (documents) can be produced through WBIF in a similar manner which was used in preparation of the Sava RBM Plan:

- Catalogue of measures relevant for the basin as a whole, including structural and nonstructural measures;
- Environmental Impact Assessment Study for the proposed measures;
- Modalities for transboundary cooperation of the Sava countries in the flood defense emergency situations;
- Organization of PP events, etc.

The PEG also stressed the need for a study which would evaluate impacts of the structural measures realized in accordance with the UN Design Study from 1970's.

The PEG also asked the Secretariat to distribute the draft ToR for the WBIF project as soon as it is prepared by the WB.

AD.6. PROGRAM FOR DEVELOPMENT OF THE FRMP IN THE SAVA RIVER BASIN

Mr. Zeljko briefly presented the changes made in the Program after the 24th meeting. He also indicated that the Program is in preparation quite long and that, therefore, certain solutions can become obsolete due to advances in the Parties. Taking into account the status of the Protocol ratification and the requirement that the Program should be adopted by the ISRBC within 6 months after entry into force of the Protocol, he noted that the PEG should finish the work on the Program on the next PEG meeting and deliver it to the ISRBC for adoption. The Secretariat shall make additional adjustments in the Program based on results of the agreements with the USACE and WB in the following months and deliver it to the PEG before the next meeting.

AD.7. JOINT ICPDR-ISRBC REPORT ON MAY 2014 FLOOD

Mr. Mirza Sarač from the ISRBC Secretariat firstly informed the PEG of the related conclusions from the meeting of ICPDR Flood Protection Expert Group (FP EG) regarding development of a joint ICPDR-ISRBC report on May 2014 flood with the instructions and the content of report by ICPDR guidelines. Then Mr. Sarač presented first draft of the Report.

PEG confirmed development of the joint ICPDR-ISRBC report and made the following remarks:

- Report generally should be adapted to a wider audience and therefore should be simplified with fewer technical details;
- Meteorological data and analysis should be processed for entire affected area rather than individually by countries with the presentation of data in the tables and comparative graphs;
- Hydrological data and analysis should be presented by the sub-basins (Sava, Una, Vrbas, Bosna, Drina, Kolubara) rather than individually by countries;
- In the chapter *Lessons learned*, point out the current lack of flood forecasting and highlight the need for such system;
- Amend the details in chapter *Casualties and assessment of damages* and chapter *Lessons learned*;

- Final draft of the Report submit to the PEG by the end of 2014;

For preparation of final draft of the Report, to the above remarks, the PEG members (for the representative country) have to provide, as soon as possible, the following data:

- Official hydrometeorological report on May 2014 flood for Republic of Croatia (in digital format) Mr. M. Babić;
- Flood warning activities of the competent institution of Republic of Croatia in the period immediately before the flood;
- Flood warning activities of the competent institution of Bosnia and Herzegovina in the period immediately before the flood Ms. A. Bezdrob;
- Official hydrometeorological report on May 2014 flood for Republic of Serbia (in digital format) – Ms. R. Pavlović.

AD.8. HM DATA EXCHANGE

Mr. Samo Grošelj, the Chairman of the Ah EG for HM Issues, presented the recent developments regarding hydro-meteorological issues. He noted that hydrological data for 2011 has been collected and that the Hydrological Yearbook 2011 and also for period 2000-2005 is under preparation. Regarding Hydrological and Meteorological Data Exchange System certain open questions are still to be resolved but also stated that the System is active and available at the ISRBC web site.

Mr. Grošelj also presented basic information about Sava HIS project and emphasized that Draft ToR is prepared but still must be further analyzed according to connecting with Sava GIS. The next steps for Sava HIS development will be assessing the current data collection and storage systems in beneficiaries, also development and support to implementation of technical solutions for integration of the beneficiary systems with the central system and support to exchange of hydrometeorological data internationally and nationally.

AD.9. OTHER ISSUES

Representative of Slovenia Mr. Luka Štravs invited all members of the PEG FP to participate at the "2nd workshop on EU Floods Directive implementation" dedicated to practical experiences in EU member states which will be held on 11th February 2015 in Nova Gorica, Slovenia.

The next meeting of PEG FP shall be held in March 19 2014 in Zagreb, just after the meeting of ICPDR Flood Protection Expert Group (March 17-18).

ANNEX I. LIST OF PARTICIPANTS

Full Name	Country/Component/Organization	Tel/ E-Mail	Attendance		
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ANNEX II. LIST OF DOCUMENTS

Agenda item	Document	ENG	HRV	SLO	BIH- BOS	BIH- HRV	BIH- SRP	SRP
1.2	AD.1.3_PEG FP_25th meeting_Adopted_Agenda.pdf	Û						
2.1	AD.2.1_Presentation_ISRBC_PEG FP 25.ppt	Û						
2.2	AD.2.2_Overview of activities related to work of PEG FP_27-28-11-2014.ppt	Û						
2.2	AD.2.2_Zastita od poplava_aktivnosti Savske komisije_21- 11-2014.docx		Û					
3.1	AD.3.1_Nacrt Zmanjsevanja Poplavne Ogrozenosti.ppt			Û				
3.1	AD.3.1_Atlas Okolja_Nove poplavne evidence.ppt			Û				
3.1	AD.3.1_Metoda za procjenu koristi mjera za zastitu od poplava_lfW_Slo.ppt		Û					
3.3	AD.3.3_Izrada mapa rizika i mapa opasnosti od poplava na vodotocima I kategorije u Federaciji BiH.ppt				Û			
4	AD.4_USACE support – 2nd phase.ppt	Û						
4	AD.4_Sava ToR - March 03 2014.docx	Û						
4	AD.4_USACE_Wehmeyer.ppt	Û						
5	AD.5_WBIF Project.ppt	Û						
5	AD.5_141102-Accepted changes-Aide Memoire Preparatory Mission Sava Basin.docx	Û						
6	AD.6_AD.6_Program_SFRMP_20140530.docx	Û						
7	AD.7_Report Floods 2014_v1.1.doc	Û						
8	AD.8_Sava HIS presentation.pptx	Û						