

**Record of Meeting**  
**Joint JCCEM U.S./Russian Meeting on**  
**Contaminant Transport Modeling at the Mayak Production Association**  
**November 5-8, 2000, Durham, North Carolina**

**Participants:**

**U.S. Side:**

Adam Hutter, DOE-Environmental Measurements Laboratory  
Mike Foley, PNNL  
Mark Williams, PNNL  
Signe K. Wurstner, PNNL  
Alan K. Yonk, INEEL  
Mikhail Khankhasayev, Florida State University  
Mark Whitney, SAIC

**Russian Side:**

Evgeniy Drozhko, Mayak Production Association  
Aleksy Aleksakhin, Maya Production Association  
Mark Glinsky, Hydrospetzgeologiya  
Andrei Glagolev, Hydrospetzgeologiya  
Natalia Kotchergina, Hydrospetzgeologiya  
Vitaly Kurochkin, CJSC "Oreol" (VNIPIPromtehnologii)  
Vladimir Korotkevich, Siberian Chemical Combine

**Interpreters:** Paul Grenier, Kevin Kelly, TEA

The meeting was conducted in accordance with the decisions of the 10<sup>th</sup> JCCEM meeting. The meeting was held in Durham, NC, 5-8 November 2000.

During the meeting the results of the work performed within the framework of the FY00 Contracts were reviewed and new Statements of Work for FY01 were discussed (enclosed). The Agreements of Cooperation for FY 01 were discussed and signed by the appropriate American and Russian representatives.

Task 1: Verification of migration scheme of 3-D regional model and modeling methods.  
Task 2: Assessment of geochemical balance of natural "solution-rock" system and migration parameters of geological environment.

Task 3: Assessment of the possibility of secondary groundwater contamination owing to the processes of radionuclide desorption from Lake Karachai bed.

It has been mutually agreed that the terms and the form of transferring the regional model data base developed jointly within the JCCEM modeling activities will be determined by January 1, 2001.

It was agreed that the two sides should consider the following areas in their future plans for cooperation:

- Development of the regional geomigration model of the Mayak site.
- Detailed studies of the radioactive source of contamination of subsurface water, Lake Karachai. It is needed to develop a local geomigration model of the source to estimate outflow of the radionuclides from Lake Karachai. This model will make it possible to test the method of modeling of physical-chemical processes of interaction in the «solution-rock» system. This method will make it possible to take into account more precisely the retardation time of Strontium -90 by porous sediments and bedrock and its desorption after closure of Lake Karachai.

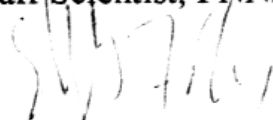
However, actual project implementation will depend upon available funding and approval by the JCCEM co-chairs.

For the U.S. side

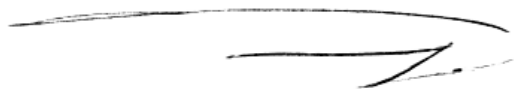


A. Hutter, Technical Program Manager  
DOE-EML

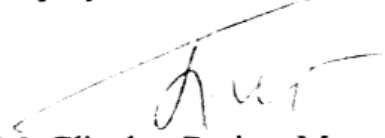
M. Foley, Principal Investigator  
Staff Scientist, PNNL



For the Russian side:



E. Drozhko, Principal Investigator  
Deputy Director, Mayak PA



M. Glinsky, Project Manager  
H Hydrospetzgeologiya