PROTOCOL

The working meeting of technical expert of the U.S. and Russia on the program of joint works
December 7-14, 1996 Augusta, GA USA

From Russian Side From American
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During the period from 7-14 of December a joint working meeting of the Russian experts (HSG, PA "Mayak") and U.S. experts (DOE, EML, WSRC) met at a SRL center of the U.S. DOE for a discussion of results of 1996 joint and the program for 1997. During the meeting the following works of the program were discussed:
- Definition of groundwater flow structure and protective properties of loose sediments in the Mishelyak River valley, and
- Hydrogeological research of the underground water pressure in fractured rock formation.

During the discussions, there was agreement on the content of the joint scientific articles on the results of the works. Special hydrological technical and organizational issues were considered for the appointed field works of 1997. Technical tasks for the field studies were prepared:
- Determination of the groundwater flow structure and protective properties of the pore sediments of the Mishelyak River valley
- Hydrogeological studies of the flow distribution of the groundwaters in the fracture rock

During the meeting it was agreed:

1. According to the technical tasks, it was decided to prepare four journal articles during 1997: "Journal of Hydrology", "Groundwater", "Flow in Porous Media", "Journal of Environmental Radioactivity", "Health Physics" and "Radiation Safety Problems". Two additional articles will be prepared for publication in 1998 that would be based on the results of the 1996 studies.
   Discussion and final editing of the article published in 1997 is planned to be held during the March field trip in 1997.
   Meetings of experts identified in the Calendar Plans will require approval by DOE-HQ concurring on dates and locations.

2. Technical tasks and calendar schedules on the contracts for field works for 1997 will be agreed. The request will be sent to Russian MINATOM to confirm the Russian documents.
3. In order to agree the order of shipment of equipment and solution of the problem of the possibility of the parts of equipment at Mayak, the American side will provide the Russian side with technical documentation for the sampling device and the final list of the equipment to be shipped to Russia as agreed upon by the contracts by December 25, 1996.

By December 30, the Russian side will inform the American about the order of shipment for the equipment.

4. Organization issues on the field studies with the use of high efficiency borehole flowmeter will be discussed after the DOE decision of the financing of the works for the contract.

Participants of the meeting think the results of the joint works of the 1996 valuable and are satisfied of the meeting results.

*Signatures:*

**Russian side:**

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A. Glagolev

I. Ivanov

**American side:**

A. Hutter

K. Stevenson

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