

**Record of Meeting**  
**11<sup>th</sup> Joint Coordinating Committee for Environmental Restoration and Waste Management**  
**between the U.S. Department of Energy and**  
**the Ministry of Atomic Energy for the Russian Federation**

**September 3-4, 2001**  
**St. Petersburg, Russia**

U.S. Participants: Gerald Boyd (Co-Chair), Elizabeth O'Malley, and Skip Chamberlain, from DOE Headquarters, Bob Bedick from DOE National Energy Technology Laboratory, Mark Whitney from SAIC, Gregory Polyanichko, Consultant and Tatyana Albert and Sergei Silitchev from T.E. Albert and Associates.

Russian Participants: Valery Lebedev (Co-Chair), Viktor Akhunov, Evgeniy Krukov, Galina Rybkina, and Evgeniy Mikerin from MINATOM; Alexander Rimsky-Korsakov, Valery Romanovsky, Rem Lyubtsev, Vladimir Popik, Vadim Izotov, Albert Aloy, Igor Smirnov, and Mikhail Moshkov from Khlopin Radium Institute; Evgeniy Drozhko from "Mayak" Production Association; Konstantin Kudinov from Mining and Chemical Combine; Andrei Zubkov from the Siberian Chemical Combine, Vitaly Kurochkin from VNIPIPT; Alexander Pavlov from VNIPIET; Mark Glinsky and Liliya Samsonova from Hydrospeztzgeologiya; Nikolai Sidorkin from NIKIMT.

Dr. Valery Lebedev welcomed the U.S. delegation to St. Petersburg, Russia, and provided opening remarks. He stated that the issues of radioactive waste management were similar in nature for both countries and he was pleased with the progress of the JCCEM projects implemented to date. He also noted that the work performed under the auspices of the JCCEM is highly regarded throughout the world. Gerald Boyd thanked Dr. Lebedev and the Russian delegation for hosting the 11<sup>th</sup> JCCEM meeting. He stated that the overall progress made this year was very good. He noted that the deployment of the Russian Pulsating Mixer Pump at the Oak Ridge National Laboratory and the Gamma Locating Device at the Idaho National Engineering and Environmental Laboratory were prime examples of the JCCEM program coming to fruition.

**HLW Tank Remediation**

Skip Chamberlain provided a brief overview of the FY01 HLW Tank JCCEM program accomplishments. Dr. Konstantin Kudinov and Dr. Popik provided technical background on the program. It was noted that the Pulsating Mixer Pump was successfully deployed at the Oak Ridge National Laboratory in January 2001, and that it marked the first deployment of a Russian technology at a U.S. site in the JCCEM program's 11-year history. DOE and MINATOM approved the following projects for this area of cooperation: Evaluation of the Russian-Induction Heated Cold Crucible Melter (ICCM) technology for DOE radioactive waste streams at FY02-03 funding levels of \$70K with

Khlopin Radium Institute and \$35K with Radon Institute (FY03 scope and funding will be determined upon the review of FY02 results); Russian Chemical Decontamination of Tanks, (continuation of the current project, phase 3B) Khlopin Radium Institute, FY02-03 funding level of \$225K; and, long-term waste glass performance at the Radon Association at a funding level of \$60K (FY03 work will be dependent upon FY02 results). DOE and MINATOM confirmed that there would be 3 visits by U.S Tanks Focus Area specialists at KRI and the Radon Association Facility in FY02 to participate in testing of the CCM technology. Both sides agreed to combine the HLW Tanks and Efficient Separations Areas of Cooperation in FY02. Mr. Boyd agreed that DOE would send the recently published study on HLW melters to MINATOM.

### **Efficient Separations**

Skip Chamberlain provided a brief overview of the Efficient Separations program. Dr. Valery Romanovksy gave a more detailed technical presentation on the program.

Both DOE and MINATOM agreed that the UNEX project would be funded at a level of \$300K for FY 02-03. Funding for testing at the Tank Retrieval and Closure Demonstration Center (TRCDC) would be funded through the Initiatives for Proliferation Prevention Program. It was further agreed that the work on Crown Ethers would be funded at an FY02 level of \$25K. FY 03 funding and scope will be determined upon completion of FY02 work.

Both sides agreed to conduct one workshop on the UNEX technology in Idaho Falls, ID and two workshops on crown ethers. one in Gatlingburg, Tennessee, and one in Aiken, South Carolina. Valeriy Romanovsky invited an INEEL specialist to a demonstration of the UNEX technology at the TRCDC.

### **Transuranic Stabilization**

Skip Chamberlain gave the overview presentation of the transuranic stabilization program. Dr. Albert Aloy provided technical details on the Gubka project, which is currently being demonstrated at the Fernald site at DOE.

Both sides agreed that the Gubka project would be funded at a FY02-03 level of \$300K. It was further agreed that a workshop on the Gubka project be conducted at INEEL in FY02. DOE and MINATOM agreed that a U.S. specialists would visit KRI for one week to discuss new areas of potential collaboration.

### **Subsurface Contamination**

Skip Chamberlain provided an overview of all the projects under this cooperative area. Dr. Drozhko, Dr. Glinsky, Dr. Zubkov, and Dr. Kurochkin provided detailed technical discussions on Subsurface contamination projects conducted under the JCCEM.

Both sides agreed that the following projects would be funded for FY02-03: Mayak Regional Modeling activities (\$330K); Tomsk Modeling development (\$270K); Vadose Zone project (\$180K).

It was further agreed that one Modeling workshop would be conducted in conjunction with the American Geophysical Unions annual meeting in December 2001 in San Francisco, California. Additionally, both sides agreed that one technical workshop be conducted in Richland, Washington.

DOE and MINATOM confirmed that a report on the summary of joint Modeling activities would be published.

### **Decontamination and Decommissioning**

Bob Bedick provided a brief overview of the joint D&D program. Drs. Krukov, Pavlov, and Sidorkin gave presentations on the detailed technical scope. DOE and MINATOM agreed to the following demonstrations to be held in FY 02: NIKIMT developed strippable and non-strippable coatings at Florida International University; VNIPIET developed electrochemical and foam decontamination methods in St. Petersburg, Russia. (FY 02 \$47K)

It was further agreed that the following five projects be implemented in FY 02 -03: Biotechnology for decontamination of surfaces coated with paint and varnish (FY02 \$50K, FY03 \$50K); Technology of dust suppression and radioactive contamination localization on concrete, and still surfaces by deposition of a thin film of a fluorepoxy (FY02 \$25K); Development of water cutting jet technology (FY02 \$70K); Use of film forming compositions for decontamination (FY02 \$35K); Automated sorption spectrometric system for continuous monitoring of gamma emitting nuclides (FY02 \$30K). Additionally, both sides agreed to a Statement of Work on the D&D of hot cell facilities.

### **Other Business**

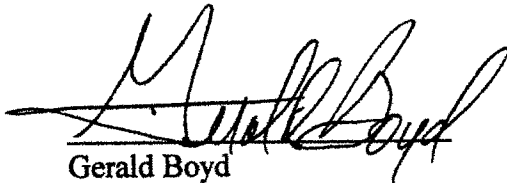
DOE and MINATOM agreed to work jointly to ensure that all JCCEM projects be implemented without interruption. The Russian side formally presented DOE with a recommendation on extending the Memorandum of Cooperation on Environmental Restoration and Waste Management. Gerald Boyd stated that MINATOM's proposal would be transmitted to DOE's Office of Policy and International Affairs for review.

Furthermore, DOE and MINATOM agreed to support the Presidential Management Training Program (PMTP). The D&D focus area as well as Mississippi State University (DIAL program) have expressed an interest in hosting PMTP interns. Also, the Office of Civilian Radioactive Waste Management (RW) has expressed an interest in this program. The two sides will work together to identify appropriate participants. Dr. Kudinov and Elizabeth O'Malley have been designated as points of contact for this JCCEM program.


DOE received the ten-year JCCEM report prepared by the Russian side. It was agreed that by December, 2001, the report will be finalized for publication. DOE and MINATOM agreed that the 12th JCCEM meeting will be held in Prague, Czech Republic in conjunction with the 6<sup>th</sup> International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe, September 23-26, 2002.

U.S. prepared and presented at the meeting SOW for FY02-03 that were reviewed and signed by both sides.

Signed on the fourth of September, 2001,



Gerald Boyd  
Head of Delegation  
U.S. Department of Energy



Valery Lebedev  
Head of Delegation  
Ministry of Atomic Energy for the  
Russian Federation