

**RECORD OF MEETING
AMEC PROJECTS 1.5-1/1.5
29-31 JANUARY 2002
MURMANSK, RUSSIA**

INTRODUCTION

Representatives of the Ministries of Defence (MOD) of Russia (RF), Norway (NOR), and the US Department of Defense (US) met in accordance with the AMEC Principals decisions on AMEC Projects 1.5 “Cooperation in Radiation Safety” and 1.5-1 “Radiation Control at Facilities – Application of the PICASSO System.” The list of participants is included in Attachment 1.

MEETING GOALS

1. Review the TZ and conceptual design document for the Picasso installation at RTP Atomflot.
2. Visit RTP Atomflot and view the low-level liquid radioactive waste treatment (LRW) facility and the spent nuclear fuel pad that is under construction.
3. Establish a technical foundation for implementation of the Picasso system at RTP Atomflot.
4. Host a coordination meeting between the Project 1.1-1 and 1.5-1 Teams.
5. Review the status and progress of the Norwegian Project 1.5 contract for the purchase and delivery of KID-08S dosimeters for the Polyarninsky SRZ.
6. Close-out the Project 1.5-1 contract for the design of Picasso at Polyarninsky SRZ.
7. Conclude contractual negotiations on the contract for development of the technical and installation design documentation for installation of Picasso at RTP Atomflot.

ACCOMPLISHED

1. The RF technical experts provided an overview of the proposed radiation monitoring concept at RTP Atomflot. RTP Atomflot is installing two new facilities: The LRW facility, and a SNF pad to allow Russia to more effectively manage Naval SNF. Detailed discussions were held regarding the concept of monitoring and objectives. This highlighted the environmental radiation monitoring at the temporary SNF pad site, dockside where SNF casks are loaded, and the LRW facility. RTP Atomflot representatives noted that they now conduct monitoring on site including air and water sampling, and limited radiation monitoring with stationary detectors. This equipment is old and insufficient, and some is beyond its useful life expectancy.
2. Representatives from RTP Atomflot reviewed the proposed monitoring concept and expressed their support for the overall concept. It was noted that: 1) the installation of a tritium detector in the stack from the LRW facility was not needed, and 2) The number of sensors located at the storage pad, their type, location,

and the method for processing data should differentiate between accidents and normal operations.

3. The project officers and technical experts visited RTP Atomflot on 30 January 2002. During the site visit, the technical experts were shown the radiation control system and visited the SNF Pad Site, the radiation safety control room, laboratory, the planned locations of the radiation detectors. Some of the proposed locations for the radiation detectors in the LRW facility were visited. It will be necessary to have more time onsite following completion of the conceptual and technical designs to review the exact locations of the detectors around the SNF pad site and the LRW facility
4. ICC Nuklid presented an oral progress report on the status and achievements for the dosimeter contract with Norway. The dosimeters were ordered and production at the Mayak Factory in Kursk was initiated in December 2001. Delivery is expected in April 2002.
5. Final negotiations for the contract between FFI and ICC Nuklid on "Development of the Technical and Installation Design for Picasso at RTP Atomflot" were conducted. It is expected that the contract will be signed in two weeks.
6. An integration meeting was held between the AMEC 1.1-1 and 1.5-1 Project Officers and Technical Experts. It was agreed that Project 1.1-1 addresses radiation safety requirements for the SNF storage facility and that Project 1.5-1 addresses radiological environmental monitoring for the SNF storage pad. It was further agreed that the projects are complementary and no construction or installation conflicts were identified.

THE EXPERTS REPORT TO THE STEERING GROUP

1. The RF experts report that a preliminary TZ has been drafted by ICC Nuklid and submitted to RTP Atomflot and RF MOD technical experts for review. This preliminary TZ was not distributed to the NOR and US experts, but is reported to be similar in technical content to the TZ for Polyarninski SRZ.
2. ICC Nuklid and IBRAE RAN gave a presentation on a concept for radiation monitoring at the cask storage pad for Naval SNF and the LRW Treatment Facility at RTP Atomflot. The NOR and US experts conducted a quick review of this concept and noted that it appears to contain much of the information needed for the design and installation of Picasso at RTP Atomflot. However, for more detailed analysis, a conceptual design report from Russia must still be provided.
3. The Russian side informed the NOR and US representatives that the report "Conceptual Design of Automated Radiation Monitoring System for the Interim Storage Pad and the LRW Treatment Facility at RTP Atomflot" will contain sensitive information of the Russian Federation. In the near future, the Russian side will inform the NOR and US sides on procedures for the transfer and use of this information.
4. The implementation of the Picasso system at RTP Atomflot shall commence upon signing of the new contracts. This will take place after:
 - ICC Nuklid submits the final conceptual design to NOR and US Experts in the framework of the pending contract between FFI and ICC Nuklid.
 - The technical and installation design has been completed.
5. The NOR and US delegations notified the RF delegation that further work on the installation of Picasso at Polyarninsky SRZ will be delayed pending further

- guidance from the Steering Group. The contract between BNL and ICC Nuklid for the installation design of Picasso at Polyarninsky SRZ is considered complete.
6. ICC Nuklid has failed to submit monthly progress reports and a Copy of the Certificate as required by the Project 1.5 contract on "Purchase and Installation of Dosimeters for the Polyarninsky SRZ." ICC Nuklid has provided an "Excerpt of the Certificate." ICC Nuklid will take immediate actions to fulfill the contract conditions.

NEXT MEETING

The next 1.5-1 Project Officers meeting will be held when the design for installation of Picasso at RTP Atomflot for the SNF pad and the LRW facility is completed. A planning time for this meeting is early April pending receipt of the final design and the TZ.

For Russian Ministry of Defence

For US Department of Defense

CAPT Andrey Egorkin

CDR John Pomerville

For Norwegian Ministry of Defence

Dr. Monica Endregard

СПИСОК УЧАСТНИКОВ ВСТРЕЧИ ПО ПРОЕКТУ «АМЕС 1.5-1»

Мурманск, 29-31 января 2002 г.

THE LIST OF PARTICIPANTS OF MEETING ON PROJECT «AMEC 1.5-1»

Murmansk, January 29-31, 2002

США	USA
<u>Агентство по уменьшению угрозы</u> Джон Помервилль	<u>Defense Threat Reduction Agency</u> John Pomerville
<u>Брукхевенская национальная лаборатория</u> Пол Московитц	<u>Brookhaven National Laboratory</u> Paul Moskowitz
<u>Технолоджи Менеджмент Компани</u> Билл Смелцер	<u>Technology Management Company</u> Bill Smeltzer
<u>Посольство США в Москве</u> Джон Туминаро	<u>US Embassy in Moscow</u> John Tuminaro
<u>Переводчик</u> Борис Кочетков	<u>Interpreter</u> Boris Kochetkov
Норвегия	NORWAY
<u>Министерство обороны</u> Ingjerd Kroken Стейн Хервик	<u>Ministry of Defence</u> Ingjerd Kroken Stein Hervik
<u>Норвежский институт оборонных исследований</u> Моника Эндрегард	<u>Norwegian Defence Research Establishment</u> Monica Endregard
<u>Норвежский институт энерготехнологий</u> Райдип Синг Сидху	<u>Institute for Energy Technology</u> Rajdeep Singh Sidhu
<u>Управление Радиационной Безопасности Норвегии</u> Анита Андерссон Сорли	<u>Norwegian Radiation Protection Authority</u> Anita Andersson Sørлие
<u>Переводчик</u> Мария Ким	<u>Interpreter</u> Maria Kim

РОССИЙСКАЯ ФЕДЕРАЦИЯ	RUSSIAN FEDERATION
<u>Минобороны России</u> Эдуард Иванович Латышев Андрей Андреевич Егоркин Павел Анатольевич Малахов Дмитрий Викторович Запорожец	<u>Ministry of Defence</u> Eduard Latyshev Andrew Egorkin Pavel Malakhov Dmitrii Zaporozec
<u>МКЦ «Нуклид»</u> Лев Михайлович Чернаенко	<u>ICC Nuclide</u> Lev Tchernachenko Tatiana Murina
<u>ИБРАЭ РАН</u> Владимир Павлович Киселев	<u>IBRAE RAN</u> Vladimir Kisilev
<u>РТП «Атомфлот»</u> Александр Кириллович Синяев Андрей Николаевич Абрамов Владимир Николаевич Шевнин Сергей Дмитриевич Ненагляднов	<u>RTP Atomflot</u> Alexander Sinyaev Andrew Abramov Vladimir Shevnin Sergei Nenaglyadov
<u>Мурманск</u> Юлия Хватова	<u>Murmansk</u> Julia Khvatova

Phone and Mailing Addresses for Selected Participants

FOR THE ROYAL NORWEGIAN MINISTRY OF DEFENCE

Monica Endregard, Senior Scientist, Project Officer
Norwegian Defence Research Establishment
P.O.Box 25
N-2027 Kjeller
Tel: +4763807898
Fax: +4763807509
email: monica.endregard@ffi.no

Rajdeep Singh Sidhu, Health and Safety Department,
Technical Expert
Institute for Energy Technology
P.O.Box 40
N-2027 Kjeller
Tel: +47 63 80 60 53
Fax: +47 63 81 25 61
email: irajdeep.sidhu@ife.no

Anita Sorlie, Norwegian Radiation Protection Authority
Technical Expert
P.O.Box 55
N-1332 Osterås
Tel:+ 47 67 16 25 28
Fax: + 47 67 14 74 07
Email:anita.sorlie@nrpa.no

Maria Kim
Interpreter

FOR THE RUSSIAN MINISTRY OF DEFENCE

COL. Andre Egorkin, Project Officer
Капитан 1 ранга Егоркин Андрей Андреевич
ВМФ России г. Москва,
Тел. 7 (095) 2042452
факс: 7 (095) 2633067
Эл. почта: [egorkin @ibrae.ac.ru](mailto:egorkin@ibrae.ac.ru)

Vladimir Kiselev, Department Chief, IBRAE RAN
Tel: (095) 955 22 96
Fax: (095) 958 11 51
E-mail: kis@ibrae.ac.ru

Tatjana Murina, Project 1.5-1 Project Manager, ICC Nuklid
#64 Lesnoy Avenue, Saint Petersburg, 194100
Tel. (812) 542 93 42, (812) 542 81 86

Fax (812) 542 62 28
E-mail nuklide@online.ru

Andrei Abramov
Deputy Chief Engineer
RTP Atomflot
Tel 8152 289 118
E-mail sdnorlan@online.ru

Sergei Nenaglyadov
Deputy Chief
Dept. of Nuclear and Radiation Safety
RTP Atomflot
Tel 8152 289 235
Email sdnorlan@online.ru

Vladimir Shevnin
Chief
Dept. of Nuclear and Radiation Safety
RTP Atomflot
Tel 8152 289 235
E-mail shv@polarcom.ru

FOR THE UNITED STATES DEPARTMENT OF DEFENCE

CDR John Pomerville, Project Officer
Defense Threat Reduction Agency
US Department of Defense
Alexandria, Virginia 22310-3398
Tel:+1 703.325.1097
Fax:+1 703.325.2951
Email: john.pomerville@dtra.mil

Paul D. Moskowitz, Program Manager
Environmental Threat Reduction, Brookhaven National Laboratory
Building 197C,
Brookhaven National Laboratory
Upton, New York 11973
Tel:+1 631 344 5062
Fax:+1 631 344 5266
Email: pdm@bnl.gov
Voice Mail:+1 6313442017

John Tuminaro
Second Secretary
Office of Environment, Science and Technology
U.S. Embassy Moscow

B. Devyatinskiy Per. 8
Moscow, Russia 121099
TEL. 7-095-728-5324
FAX 7-095-728-5033
e-mail: tuminarojd@state.gov