

UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 28, 2001



MEMORANDUM TO: Daniel M. Gillen, Acting Chief
Enrichment Section
Special Projects Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

THRU: Joseph G. Giitter, Acting Chief
Enrichment Section
Special Projects Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

FROM: Andrew Persinko, MOX Project Manager
Enrichment Section
Special Projects Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

SUBJECT: SUMMARY OF MEETINGS: QUADRILATERAL REGULATORY
COLLABORATION MEETING AND BILATERAL MEETING ON
RUSSIAN PLUTONIUM DISPOSITION PROGRAM (JANUARY 26, 2001-
FEBRUARY 2, 2001)

As part of the continuing cooperation between the Nuclear Regulatory Commission (NRC) and the Department of Energy (DOE) in providing regulatory/licensing support to the Russian Federation Gosatomnadzor (GAN) associated with plutonium disposition, NRC/NMSS personnel participated in two meetings in Moscow on January 29-February 2, 2001. NRC participation at both meetings resulted from the annual NRC-GAN meeting held on December 4-8, 2000, described in the Memorandum of Meeting, dated December 8, 2000. GAN extended an invitation to NRC to attend the first meeting, a quadrilateral meeting with Russian, French, and German representatives, and Sam Thomas (DOE) invited NRC to attend the second meeting, a bilateral meeting between the United States (U.S.) and the Russian Federation. DOE funded NRC attendance at both meetings.

The purpose of the first meeting was to coordinate regulatory support being provided to GAN under the bilateral GAN-DOE and trilateral Russian-German-French programs with European Union (EU) assistance. At the meeting, I made a presentation about NRC's role in regulating mixed oxide fuel fabrication and use in the U.S. associated with the surplus weapons-grade plutonium disposition program. The agenda, Record of Meeting, and my presentation slides are provided as Attachments 1, 2, and 3, respectively.

The purpose of the second meeting was to discuss regulatory/licensing issues relevant to the Russian Federation Plutonium Disposition Program for which DOE is providing assistance to

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GAN, and to coordinate DOE and NRC regulatory assistance being provided to GAN. At the meeting, Sam Thomas (DOE) requested that GAN consider making a formal proposal to obtain training for two GAN experts on NRC inspections and NRC inspection procedures, including practical, hands-on experience with NRC inspectors at U.S. commercial nuclear power plants and fuel cycle facilities and to obtain approximately one week of formal inspection training. Both sides agreed that this proposal could serve to partially address Item II.C.III.B in the Memorandum of Meeting from the December 4-8, 2000, meeting between GAN and NRC. GAN also requested that: (1) NRC review some of the plutonium-related regulations that are being prepared by GAN; (2) NRC provide inspection procedures and guidelines that GAN would then use to prepare its own inspection procedures and guidelines. GAN would like to discuss these procedures and other inspection-related topics with NRC during the drafting of these procedures; and (3) NRC conduct a workshop on NRC licensing and regulation of the U.S. mixed oxide fuel fabrication facility. Both sides agreed that Items 1-3 above could serve to partially address sections in the Memorandum of Meeting from the December 4-8, 2000, meeting between GAN and NRC. The agenda and Record of Meeting are provided as Attachments 4 and 5, respectively.

Docket: 70-3098

Attachments:

1. Agenda - January 29-30, 2001
2. Record of Meeting - January 29-30, 2001
3. Presentation Slides - January 29, 2001
4. Agenda - January 31 - February 2, 2001
5. Record of Meeting - January 31-February 2, 2001

ATTACHMENT 1

Preliminary Agenda
Quadrilateral Meeting (Russia/France/Germany/US)
on Plutonium Disposition

29-30 January 2001 - Moscow

29 January 2001, Monday

9.30-10.00 – Opening of the meeting. Introduction of participants

10.00-10.30 – Current status of trilateral co-operation on plutonium disposition (B.Sicard, France)

10.30 –11.00 – Current status of the Russian programme of plutonium disposition (E.Kudriavtsev, Minatom)

11.00-11.30 – Arrangement of work to support the Russian programme of plutonium disposition (US DOE)

11.30 – 12.00 – Regulation (licensing) of MOX-fuel production and use in the USA (US NRS)

12.00-13.00 – Results of implementation of agreements reached at the preceding trilateral meeting held on 19-20 October 2000 in Moscow (A.Kislov, Gosatomnadzor of Russia, B.Gordon, SEC NRS, Gosatomnadzor of Russia)

13.00-14.00 – Lunch

14.00-15.00 – Results of work carried out by Gosatomnadzor of Russia within bilateral co-operation Gosatomnadzor of Russia/US DOE (A.Kislov, M.Miroshnichenko, Gosatomnadzor of Russia)

15.00-15.30 – Cost estimation in connection with regulatory (licensing) activities for plutonium disposition to be carried out by Gosatomnadzor of Russia (A.Lavrinovitch, Gosatomnadzor of Russia)

15.30-17.00 – Discussion of concrete proposals on rendering support to Gosatomnadzor of Russia by European organisations and US DOE in the field of licensing of plutonium disposition in Russia. Co-ordination of work plans.

30 January 2001, Tuesday

10.00 – 13.00 – Discussion of necessity and adequacy of pilot production for licensing of industrial scale facilities.

13.00-14.00 – Lunch

14.00-17.00 – Continuation of discussion. Drafting and signing of a Protocol.

ATTACHMENT 2

Record of Meeting
Russian/German/French/U.S. Quadrilateral Regulatory Collaboration
Russian Plutonium Disposition Program
Moscow, January 29-30 2001

The objective of the meeting was to discuss implementation of the agreement reached at the trilateral meeting held on 19-20 October 2000 in Moscow and to coordinate joint efforts to support Gosatomnadzor of Russia in the area regulatory activities for plutonium disposition under the bilateral Gosatomnadzor-DOE and trilateral Russian-German-French programs with EU assistance. A list of participants and the agenda are included in Appendix 1 and 2.

In his opening remarks Mr. Kislov emphasized that on such an ambitious schedule the tasks assigned to RF Gosatomnadzor could be implemented only with support of foreign partners and interaction with Russian regulatory agencies involved in the regulatory process in the area of plutonium disposition.

Mr. Kudriavtsev from Minatom briefed the participants about the baseline scenario of the Russian plutonium disposition program considered by the Minatom Collegium and noted that the plutonium disposition program has moved from an R&D phase to the design, construction and operation of demonstration and large-scale industrial facilities.

Mr. Sicard of CEA, France, constructively reported on progress in implementation of the trilateral government-to-government Agreement on plutonium disposition. He also tabled a proposal on further work arrangement for regulatory activities related to the Russian plutonium disposition program to be accomplished with a support from the France, Germany and the United States.

Mr. Persinko of the U.S. Nuclear Regulatory Commission presented information about NRC's role in regulating MOX-fuel fabrication and use in the United States associated with the surplus weapons-grade plutonium disposition program

In his subsequent presentation, Mr. Kislov reported on the status of the bilateral DOE/GAN collaboration in the following two areas: development of regulatory documents and licensing of plutonium disposition activities.

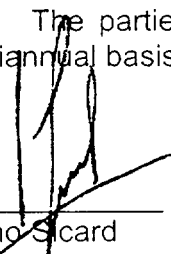
Mr. Lavrinovich reported on the cost estimates of Gosatomnadzor's regulatory activity in Russia for various scenarios of the plutonium disposition program under the trilateral agreement.

Mr. Deffrennes of EC confirmed the allocation of EU funds for the first phase of development of regulatory documents, including their review as well as long-term planning (coordinated with the United States to avoid duplication of effort).

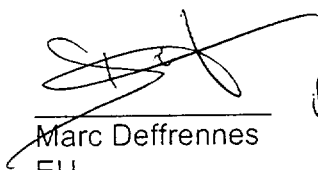
As a result of the discussions a consensus was reached that in order to continue work in an effective manner:

1. RF Gosatomnadzor will provide to all parties a complete list of 39 regulatory documents by 28 February 2001 specifying their level, their priority in line with the overall MOX program, the development schedule, cost estimates, and possible funding source.
2. When the final versions of the technical descriptions of 33 documents (out of the total of 39) developed with U.S. support are available, these will be forwarded to the European partners (target date: 28 February 2001).
3. RF Gosatomnadzor will approach the Russian Ministry of Public Health with a request to prepare technical descriptions of three of these 39 documents by the end of February 2001.
4. During March 2001 DOE and EC/CEA will negotiate the scope of their involvement in each activity undertaken by the parties, including document selection, whose funding, development, and review is the responsibility of each party.
5. During April 2001 the schedule and cost estimate will be negotiated with GAN in accordance with EU's and DOE's respective budgets.
6. The first contracts under EU funding for implementation of this work should be placed during May 2001.

The parties noted the need to hold further quadrilateral consultations on a semiannual basis.



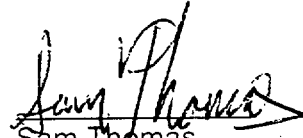
Bruno Sicard
CEA



Marc Deffrennes
EU



Andrey Kislov
Gosatomnadzor



Sam Thomas
DOE/NNSA

List of participants

	Name	Organisation	Telephone number	E-mail address
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3.	Sam Thomas	US DOE/NNSA	(202) 586 0731	sam.thomas@hq.doe.gov
4.	Bryan Gore	PNLL	(509) 372 41 21	brvan.gore@pnl.gov
5.	Thomas Grant	PNLL	(209) 528 3331	grantt@battelle.org
6.	Andrew Persinko	US NRC	(301) 415 6522	axpl@nrc.gov
7.	Wendy Hahn	LANL	(505) 665 4436	whahn@lanl.gov
8.	Bruce B. Bevard	ORNL	(865) 574 0279	bevardbb@ornl.gov
9.	Don Williams	ORNL	(865) 574 8710	williamsdljr@ornl.gov
10.	Dmitry Borisov	US DOE/Moscow	(095) 728 5220	DBorisov@doe.ru
11.	Alexey Davydov	US DOE/Moscow		
12.	Andrey Kislov	RF Gosatomnadzor	(095)912 4281	
13.	Alexander Khamaza	RF Gosatomnadzor	(095) 911 6451	
14.	Elena Kuznetsova	RF Gosatomnadzor	(095) 911 6453	kep@crusader.gan.ru
15.	Irina Sokolova	RF Gosatomnadzor	(095) 911 64 58	ivs@crusader.gan.ru
16.	Maria Ivanova	RF Gosatomnadzor	(095) 911 64 55	maria@crusader.gan.ru
17.	Alexander Kolesnikov	RF Gosatomnadzor	(095) 911 6064	ask@crusader.gan.ru
18.	Andrey Lavrinovich	RF Gosatomnadzor	(095) 911 6067	laa@crusader.gan.ru
19.	Mikhail Miroshnichenko	RF Gosatomnadzor	(095) 911 8571	
20.	Andrey Vistgof	RF Gosatomnadzor	(095) 911 5640	vist@crusader.gan.ru
21.	Boris Gordon	SEC NRS	(095) 275 5548	sec@ntc.asvt.ru
22.	Sergey Volkovitski	SEC NRS	(095) 275 8264	sov@ntc.asvt.ru
23.	Sergey Tsvetkov	SEC NRS	(095) 275 2815	tsvetkov@ntc.asvt.ru
24.	Nikolai Khrennikov	SEC NRS	(095) 275 5548	khren@ntc.asvt.ru
25.	Evgeny Kudryavtsev	Minatom	(095) 239 4192	
26.	Yuri Buzulukov	Booz-Allen & Hamilton	(095) 923 6814	buz_bah@co.ru
27.	Bruno Sicard	CEA, France	(33 4) 66 79 62 01	
28.	Michel Asty	DSIN, France	(33 1) 43 19 71 77	michel.astv@industrie.gouv.fr
29.	Andre Jouve	DSIN, France	(33 1) 43 19 70 68	andre.jouve@industrie.gouv.fr
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31.	Marc Deffrennes	EC	(32 2) 296 00 62	marc.deffrennes@cec.eu.ink
32.	Ludovic Devos	COGEMA/Moscow	(095) 364 89 11	ldevos@online.ru
33.	Wolfgang Thomas	GRS, Germany	(089) 32 004 490	tho@grs.de
34.				

ATTACHMENT 3

US NRC AND MIXED OXIDE FUEL



Quadrilateral Meeting on Russian Federation
Plutonium Disposition
Andrew Persinko, MOX Project Manager
U.S. Nuclear Regulatory Commission
January 29, 2001

1

NRC's ROLE IN MOX

- Overview
- The Licensing Process
- Environmental review
- Public Participation
- Activities to Date
- Schedule

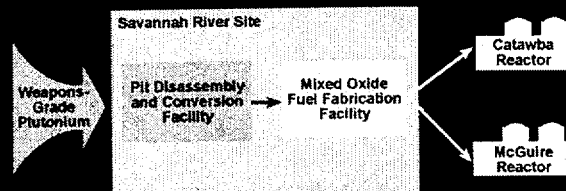
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A BRIEF HISTORY

- U.S. agreement with Russian Federation
- DOE has decided to:
 - ▶ Convert some surplus weapons-grade plutonium to plutonium oxide (MOX fuel)
 - ▶ Contract with private industry to:
 - License, build and operate a MOX fuel assembly plant at Savannah River Site
 - Irradiate MOX fuel assemblies in U.S. commercial reactors

3

NRC Role in Regulating Mixed Oxide Fuel



Yellow = NRC regulated
Blue = DOE regulated

4

THE NRC LICENSING PROCESS

5

AREAS OF NRC REVIEW

- Fuel fabrication
- Transportation
- Reactors
- Spent fuel disposal

6

NRC SAFETY REQUIREMENTS

- Code of Federal Regulations (CFR - Title 10)
 - ▶ Fuel facilities (Part 70)
 - ▶ Environmental protection (Part 51)
 - ▶ Transportation (Part 71)
 - ▶ Public hearings (Part 2)
 - ▶ Reactors (Part 50)
 - ▶ Spent fuel disposal (proposed Part 63)
 - ▶ Radiation protection (Part 20)

7

NRC SAFETY GUIDANCE

Fuel Facility

- NUREG-1718, MOX Fuel Fabrication Facility Standard Review Plan
 - ▶ Site description
 - ▶ Integrated safety analysis
 - ▶ Criticality safety
 - ▶ Fire protection
 - ▶ Chemical safety
 - ▶ Radiation safety
 - ▶ Management measures

8

ACTIVITIES REQUIRING NRC APPROVAL

Fuel Facility

- Construction
- Operation

9

CONSTRUCTION

Fuel Facility
10 CFR 70.22 and 70.23

- Site description
- Safety analysis of the design bases
- Quality assurance program
- Environmental review

10

OPERATION

Fuel Facility
10 CFR 70.22 and 70.65

- Safety analysis
- Safety equipment / operator actions
- Management measures
- Emergency plan
- Physical protection plan
- Material control and accounting plan

11

NRC REGULATION 10 CFR 70

Basic Construct

- Performance requirements
- Integrated safety analysis
- Items relied on for safety
- Management measures
- Change process

12

NRC ENVIRONMENTAL REVIEW

Introduction

- Law:
 - National Environmental Policy Act (NEPA) regulations
- NRC requirements:
 - Environmental protection (Part 51)
 - Implement NEPA

13

PUBLIC PARTICIPATION

- Environmental review / NEPA
 - Scoping meetings; public comments
- Hearings
- Phone, e-mail or write
- MOX website
 - <http://www.nrc.gov/NRC/NMSS/MOX/index.html>
- MOX newsletter
- ADAMS

14

ACTIVITIES TO DATE

- Standard Review Plan for MOX fuel facility (NUREG-1718)
- MOX website
- Technical meetings
- Public meetings
- Planning
- Environmental report

15

SCHEDULE

Fuel Facility

- Environmental report received (12/19/00)
- Application for construction authorization fuel fabrication facility (2/01)
- Start construction of fuel fabrication facility assuming favorable safety evaluation report (SER) (9/02)
- License application fuel fabrication facility (6/02)

16

SCHEDULE

Reactors

- License amendment application for MOX lead test assemblies (LTAs) (8/01)
- Begin irradiating LTAs at McGuire (10/03)
- License amendment application to use MOX fuel (other than LTAs) in McGuire/Catawba reactors (1/04)
- Begin MOX fuel irradiation at McGuire/Catawba commercial nuclear power plants(9/07)

ATTACHMENT 4

Agenda

**Meeting of Representatives of Gosatomnadzor of Russia
and U.S. Department of Energy/National Nuclear Security Administration
January 31–February 2, 2001**

RUSSIAN FEDERATION PLUTONIUM DISPOSITION PROGRAM LICENSING/REGULATORY INFRASTRUCTURE PROJECT

(Monday and Tuesday, January 29 and 30, 2001 - Quadrilateral Meeting)

Wednesday, January 31, 2001

- 10:00 – 10:15 Introductions and Brief Opening Remarks (A. Kislov, GAN;
B. Gore, PNNL; S. Thomas, U.S. DOE/NNSA)
- 10:15 – 11:15 Review of Progress and Accomplishments of Quadrilateral
Meeting (Joint Discussion)
. Implications for this project
. Action Items
- 11:15 – 11:30 Break
- 11:30 – 13:00 GAN Discussion of Licensing Process Based on Expert
Reviews
. Time of start necessary to meet Bilateral Agreement
milestones
. Required U.S. support
. Status of proposal for U.S. support
- 13:00 – 14:00 Lunch
- 14:00 – 14:30 GAN Discussion of “Field” Working Meeting at Mayak
. Objectives
. Accomplishments
. Conclusions and Recommendations
. Opinions of each attendee from GAN-HQ
- 14:30 – 15:30 Review of VVER-1000 Licensing Roadmap Materials
- 15:30 – 15:45 Break
- 15:45 – 17:00 Review of VVER-1000 Licensing Roadmap Materials
(continued)

Thursday, February 1, 2001

- 10:00 – 11:00 Discussion With Dr. Dimitriev on Strategy of Expert Review Licensing in Parallel With Development of Regulations
- 11:00 – 12:00 Review of Gas Reactor (GT-MHR) Licensing Roadmap Materials
- 12:00 – 13:00 Status of Licensing Roadmap Materials
· Pu Conversion – U.S. comments on draft licening roadmap, dictionary, schedule
· BN-600 – U.S. comments on draft licening roadmap, dictionary, schedule
· U.S. schedule confirmation for Pu immobilization and MOX fuel fabrication projects
- 13:00 – 14:00 Lunch
- 14:00 – 15:30 Discussion of Plutonium Conversion Demonstration Facility and Licensing Impacts of Using French Technology
· Russian Position
· U.S. Position
- 15:30 – 15:45 Break
- 15:45 – 17:00 Discussion of GAN Interactions With U.S. NRC, IAEA and U.S. Agency for International Development (U.S. AID)

Friday, February 2, 2001

- 10:00 – 11:30 Status of Task Order for Development of 10 Regulations
- 11:30 – 11:45 Break
- 11:45 – 12:45 Discussion of Web Site Capability Upgrades Desired by GAN
- 12:45 – 13:45 Lunch
- 13:45 – 15:00 Status of Completion of Regulation Descriptions (Task Order 1)
- 15:00 – 17:00 Completion and Signing of Record of Meeting

ATTACHMENT 5

Record of Meeting
Between Representatives of Gosatomnadzor of Russia and the
U.S. Department of Energy / National Nuclear Security Administration
Regarding Activities of the Licensing/Regulatory Infrastructure Project
for the Russian Federation Plutonium Disposition Program
January 31- February 2, 2001

Gosatomnadzor of Russia Headquarters Building, Moscow, Russian Federation

Participants

For the Federal Authority for Nuclear and Radiation Safety of Russia (Gosatomnadzor)

Alexander Dmitriev
Andrei Kislov
Mikhail Miroshnichenko
Victor Kornuk
Elena Kuznetsova
Alexander Kolesnikov
Valery Slutsker
Andrey Vistgof

Anatoli Ipatov
Anatoly Stroganov
Boris Gordon
Nikoli Khrennikov
Irina Danicheva
Alexander Khamaza

For the U.S. Department of Energy (DOE) / National Nuclear Security Administration (NNSA)

Sotirios Thomas, DOE-NNSA, NN-63
Bryan Gore, PNNL
Thomas Grant, PNNL
Donald Williams, ORNL
Wendy Hahn, LANL
Andrew Persinko, U.S. Nuclear Regulatory
Commission (NRC)

Dimitri Borisov, DOE-Moscow Office
Iouri Bouzouloukov, Booz-Allen & Hamilton
Vova Khavkin, Interpreter
Elena Gornaya, Interpreter

The purpose of this meeting was to discuss the current status of the development of licensing roadmaps and other regulatory/licensing issues relevant to the Russian Federation (R.F.) Plutonium Disposition Program.

Issues discussed during the meeting included the following:

1. Dr. Kislov summarized the results of the January 28-29, 2001 Quadilateral Meeting, and mentioned an agreement with a French organization to have GAN experts visit French facilities involved with plutonium conversion and MOX fuel fabrication during April 2001. A similar visit by GAN experts to reactors in France that use MOX fuel is being planned for Fall 2001.
2. Dr. Gordon explained that GAN-STC is a research organization and, as such, is not subject to the 20% value added tax (VAT). He also stated that GAN-STC is subject only to the 1% Road Tax.
3. Mr. Vistgof explained that the costs negotiated for the Task Order 2 licensing roadmap work do not include VAT or Road Tax. He stated that no taxes have been paid from Task Order 2 deliverable payments. It was also noted that both GAN and GAN-STC are exempt from property tax.
4. GAN has communicated with Minatom in taking the appropriate steps to obtain tax exemption.
5. Dr. Kislov stated that GAN's Task Order 3 licensing work supporting the Paralex project was not subject to VAT tax because it was done by GAN-STC. Future plutonium disposition program licensing actions may be accomplished by GAN-STC (which, as noted above, is exempt from VAT), or by other independent organizations. He agreed that, if the expert evaluator is not exempt from VAT, GAN will insert a clause in its contract with the evaluator requiring the evaluator to obtain tax exemption.
6. PNNL will purchase and have delivered to GAN the electronic equipment on a list agreed to by PNNL and GAN. GAN requires this equipment for its work on the licensing roadmaps.

7. Comments from the U.S. team on the VVER-1000 and GT-MHR licensing roadmap materials (i.e., licensing roadmap, dictionary, and schedule information) were discussed with the GAN representatives responsible for roadmap material preparation. All U.S. comments were satisfactorily addressed. GAN will resubmit the VVER-1000 and GT-MHR licensing roadmap materials to the U.S. team by February 8, 2001. The VVER-1000 and GT-MHR licensing roadmap materials will be the primary topic for discussion at the meeting of the U.S./R.F. Special Working Group on Regulatory Issues in Washington, D.C. on March 13-15, 2001.
8. Concerning its draft GT-MHR licensing roadmap materials, GAN stated that it has conducted more work than originally contemplated in its proposal for this work because of significant changes to the Level 2 GT-MHR technical roadmap made by OKBM. GAN will submit a letter to PNNL requesting and justifying additional funding for preparation of this licensing roadmap. DOE and PNNL agreed to consider this request.
9. Dr. Kolesnikov and Dr. Ipatov discussed his recent trip to Mayak. Dr. Kolesnikov noted that Mayak representatives stated that, if the agreement milestone schedule for a pilot plutonium conversion facility is to be met, it will require a non-standard, licensing procedure based on expert reviews because plutonium-related regulations may not be enacted before the licensing action must be made.
10. Dr. Kislov discussed GAN's plans for licensing early bilateral (U.S./R.F.) agreement milestones using expert reviews in the absence of applicable plutonium-related regulatory requirements. Dr. Kislov stated that GAN will be able to issue licenses for early bilateral agreement milestones in a timely manner using this expert review process as long as it has U.S. support for these activities and it receives necessary and timely cooperation from Minatom and Minatom facilities. Dr. Kislov stated that GAN will submit to PNNL a proposal for U.S. support for the formulation of an independent expert licensing review board and other expert review-based licensing activities.
11. Dr. Dmitriev also confirmed that GAN will be able to issue licenses for early bilateral agreement milestones in a timely manner using a licensing process based on expert reviews. He also mentioned that expert review-based licensing of reactor facilities is authorized by an existing Russian regulation (OPB-88/97) [ОПБ-88/97] and that a new regulation (OPB OYaTTs-2000), [ОПБ ОЯТЦ-2000] currently in draft form, would permit similar licensing actions for fuel cycle facilities.
12. Mr. Thomas requested that GAN consider making formal proposals on two topics:
 - A. Creation of an internal GAN project management team to enhance communications between the U.S. and the R.F. and to resolve problems related to licensing support for the RF plutonium disposition program, and
 - B. Provide training for two GAN experts on NRC inspections and inspection procedures, including practical hands-on experience with NRC inspectors at U.S. commercial nuclear power plants and fuel cycle facilities. One week of formal training will also be provided.Both sides agreed that the latter proposal could serve to partially address item II.C.III.B in the Memorandum of Meeting from the December 4-8, 2000 meeting between GAN and NRC.
13. Dr. Gordon initialed the pages of Task Order 4 regarding the drafting of 10 high-priority regulatory documents and stated that work on these documents will begin immediately. He also requested that the completion date of the Task Order be extended to September 2001. Within two weeks, Dr. Gordon will determine whether minor changes to the wording of this Task Order will be necessary and, if such changes are needed, will submit these requested revisions to PNNL.
14. The U.S. and Russian teams discussed GAN's interactions with and support provided by organizations other than DOE, including NRC, IAEA, and U.S. Agency for International Development (USAID). The following key issues were discussed:
 - A. GAN requested that NRC review of some of the plutonium-related regulations to be prepared by GAN. Both sides agreed that such a review would serve to partially satisfy item II.C.I.A in the Memorandum of Meeting from the December 4-8, 2000 GAN/NRC meeting.
 - B. GAN requested NRC to provide inspection procedures and guidelines that it would then use as the basis for preparing its own inspection procedures and guidelines. GAN also requested to discuss these procedures and other inspection-related topics with the NRC during the drafting of these procedures. Both sides agreed that providing the inspection procedures and subsequent discussions with the NRC would serve to partially satisfy item II.C.I.A. in the Memorandum of Meeting from the December 4-8, 2000 GAN/NRC meeting.

- C. GAN requested NRC to conduct a management-level workshop on NRC licensing and regulation of the U.S. MOX fuel fabrication facility. Both sides agreed that such a workshop would satisfy item II.C. II.B in the Memorandum of Meeting from the December 4-8, 2000 GAN/NRC meeting.
- D. GAN will submit a detailed proposal for cooperation with the NRC regarding nuclear power plants in connection with items II.C.I, II, and III in the Memorandum of Meeting from the December 4-8, 2000 GAN/NRC meeting.
- E. GAN stated that there is currently no interaction between GAN and IAEA or USAID on plutonium disposition issues.

GAN also stated that it will submit detailed proposals to the NRC regarding items B. and C. above. Mr. Thomas and Mr. Persinko agreed to coordinate their support in responding to GAN's requests in items A., B., and C. above.

- 15. The two sides discussed the development of a bi-lingual website for GAN. Separate GAN proposals to DOE and NRC for support for upgrading its website were discussed. GAN will combine the separate requests into one request and DOE and NRC will coordinate a response. The U.S. side confirmed its ~~interest in supporting~~ ^{plans to} the improvement of GAN's website capabilities.
- 16. Mr. Slutsker presented to Mr. Gore the final version of the brief descriptions of the 35 regulatory documents applicable to licensing plutonium disposition activities that GAN plans to create. GAN prepared these descriptions under Task Order 1 of this project.


The next meeting between Gosatomnadzor and DOE/NNSA on the activities of the Licensing/Regulatory Infrastructure Project is scheduled for February 21-22, 2001 in Moscow. The primary purpose of this meeting is to discuss the VVER-1000 and GT-MHR licensing roadmaps.

**For the Federal Authority
for Nuclear and Radiation
Safety of Russia**



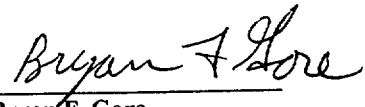
Andrei Kislov

**For the U.S. Department of
Energy, National Nuclear
Security Administration**



Sotirios Thomas

**For the Pacific Northwest
National Laboratory**



Bryan F. Gore

**For the Interregional
Information Center
(Gosatomnadzor)**



Andrey Vistgof

J. Glitter

GAN, and to coordinate DOE and NRC regulatory assistance being provided to GAN. At the meeting, Sam Thomas (DOE) requested that GAN consider making a formal proposal to obtain training for two GAN experts on NRC inspections and NRC inspection procedures, including practical, hands-on experience with NRC inspectors at U.S. commercial nuclear power plants and fuel cycle facilities and to obtain approximately one week of formal inspection training. Both sides agreed that this proposal could serve to partially address Item II.C.III.B in the Memorandum of Meeting from the December 4-8, 2000, meeting between GAN and NRC. GAN also requested that: (1) NRC review some of the plutonium-related regulations that are being prepared by GAN; (2) NRC provide inspection procedures and guidelines that GAN would then use to prepare its own inspection procedures and guidelines. GAN would like to discuss these procedures and other inspection-related topics with NRC during the drafting of these procedures; and (3) NRC conduct a workshop on NRC licensing and regulation of the U.S. mixed oxide fuel fabrication facility. Both sides agreed that Items 1-3 above could serve to partially address sections in the Memorandum of Meeting from the December 4-8, 2000, meeting between GAN and NRC. The agenda and Record of Meeting are provided as Attachments 4 and 5, respectively.

Docket: 70-3098

Attachments:

1. Agenda - January 29-30, 2001
2. Record of Meeting - January 29-30, 2001
3. Presentation Slides - January 29, 2001
4. Agenda - January 31 - February 2, 2001
5. Record of Meeting - January 31-February 2, 2001

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