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**NEA/SEN/NRA(2008)1**

Organisation de Coopération et de Développement Économiques  
Organisation for Economic Co-operation and Development

**02-Jul-2008**

**English text only**

**NUCLEAR ENERGY AGENCY  
COMMITTEE ON NUCLEAR REGULATORY ACTIVITIES**

**SUMMARY RECORD OF THE SUMMER MEETING OF THE COMMITTEE ON NUCLEAR  
REGULATORY ACTIVITIES (CNRA)**

**Held on 9th-10th June 2008 in Oslo, Norway**

**JT03248606**

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## HIGHLIGHTS

**Note:** These are the actions and highlights agreed by CNRA members at the recently completed 2008 CNRA Summer Meeting (Note: All distributed documents and presentations are available upon request to the Secretariat). A list of the meeting participants is attached as Appendix A and a preliminary list of CNRA and related meetings for 2008 and 2009 is attached for your use in planning as Appendix B.

### Summary of CNRA Approvals and Actions to be taken

#### A. Membership

A.1. CNRA Members gave special thanks to Jukka Laaksonen who is leaving the CNRA after approximately 20 years of membership and 8 years as Chair. In addition they thanked Jim Dyer, Bureau member who is also leaving the Committee.

A.2. CNRA Members elected Mr. Eric Leeds, United States to replace Mr. Dyer as Vice-Chair and Marta Ziaková, Slovak Republic to replace Prof. Laaksonen on the CNRA Bureau.

B. **CSNI** – Dr. Hahn provided an overview of current CSNI activities and NEA joint research projects, including new proposals to be presented to CSNI. It was suggested that it would be beneficial to develop a status report on steam generator issues based on recent events. CNRA agreed to prepare a proposal to the CSNI in the coming months.

C. **MDEP** – Mr. Reig provided an update on the work of the Multinational Design Evaluation Programme (MDEP), including the status of the project. The Chairman noted the need for CNRA to closely coordinate its activities on new reactors with MDEP to avoid duplication.

D. **WENRA/HLG** – Updates on recent activities were received from Western European Nuclear Regulators Association and the European High Level Group on Nuclear Safety and Waste Management.

E. **Lessons Learnt for the Convention on Nuclear Safety (CNS)** – Members reviewed the lessons learned and agreed that CNRA should consider the main issues addressed in the summary report and the compilation of highlights in developing the next strategic plan and to identify possible input for the next organisational meeting in September 2009.

F. **CNRA Strategic Plan** - The Chairman with the assistance of the Secretariat and a small subgroup of the Bureau will prepare a draft of the plan which will be presented to the CNRA in December 2008. The new plan would be coordinated with the CSNI.

G. **Working Group on Operating Experience (WGOE)** - The following actions were taken:

G.1. The revised Mandate was approved subject to any comments received by members of the CSNI in the next 4 weeks, and the Joint Meeting of the CNRA and CSNI Bureaus the next day. It provides the overall scope and objectives for the group. Provisions on how these should be carried out were discussed and will **be included in the summary record**<sup>1</sup> of the meeting.

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<sup>1</sup> See detailed Summary Record following this section.

- G.2. CNRA approved the IOEF Implementation Plan noting that it was not intended that this would greatly affect the work load of WGOE as many of the actions were for other. In particular, the Joint Bureau would review the concept of an IOEF Management Board to oversee coordination between all IOEF systems.
- G.3. CNRA noted the need for the Joint Bureau to establish a protocol for handling requests/proposals from Working Groups in one Committee to the other Committee.
- G.4. CNRA approved continuation of PoW for 2007/2008 and the next 2 meetings, which will take place as follows; 5<sup>th</sup> – 7<sup>th</sup> November 2008, NEA Headquarters and 27<sup>th</sup> – 29<sup>th</sup> May 2009, United States.
- G.5. CNRA welcomed the significant changes that had occurred in the group recently, especially the closer liaison with CSNI working groups. It noted that WGOE should be allowed adequate time to develop and execute its new programme of work in relation to screening of events before any further consideration of its role or terms of reference.
- G.6. CNRA noted that industry participation should be limited to observer status only, to preserve independence, but this would not prevent good dialogue.

#### H. *Working Group on Inspection Practices (WGIP)*

- H.1. CNRA noted the current status of the task on Inspection of fire protection programmes (in conjunction with WGOE), agreed to publication of the proceedings of Digital I&C Inspections Workshop and received the results from the 9<sup>th</sup> WGIP International Workshop.
- H.2. CNRA approved the next 3 meetings of WGIP and to have a 10<sup>th</sup> WGIP International Workshop on Regulatory Inspection Practices in the Netherlands in Spring 2010.
- H.3. CNRA agreed to have an in-depth discussion on the future role of WGIP at its next meeting.

#### I. *Working Group on Public Communication of Nuclear Regulatory Organisations (WGPC)*

- I.1. CNRA approved the report based on the results of the 3 International Workshops.
- I.2. CNRA approved continuation of the Working Group and its Programme of Work, which includes preparation of topical discussions on Information of Local public, Surveying Public perception and Transparency in Regulatory Activities and its 10<sup>th</sup> meeting in 2009.
- I.3. Approved next WGPC meeting April 2009 in Budapest.

#### J. *Working Group on the Regulation of New Reactors (WGRNR)*

- J.1. CNRA approved a revised Mandate.
- J.2. CNRA approved the initial programme of work which includes Development of a Construction Experience Database and Review of licensing practices used in nuclear power plant siting.
- J.3. CNRA approved the next two meetings; October 29-31, 2008, NEA Headquarters and Early 2009, location to be determined - proposal to hold in a member country where new construction is taking place.

**K. *Workshop on Lessons Learnt from Sump Pump Clogging Issue***

- K.1. CNRA members agreed on the proposed programme for the workshop and the concept to setup a Knowledge Base web site for collecting information especially from ongoing CSNI work (Germany will offer the platform and control progress).
- K.2. The Secretariat will coordinate with members to confirm speakers and presentations for the various sessions.

**L. *Presentation on Human and Organisational Factors***

- L.1. Dr. Reiersen, Chair of CSNI/WGHOF provided a detailed and useful presentation on the work of the group. This included information on what the group is and what it does, recent and planned activities and how this work relates to regulatory matters.
- L.2. CNRA members discussed the work in detail and noted the importance of this issue and the needs to have close cooperation and coordination with CNRA and its working groups.

**M. *Exchange of Information***

- M.1. Special presentations were made by; United States on dissimilar butt welds, Spain on Ascó event, Finland on TVO event, Slovenia on Krsko event, France on concrete rebar issues, and Japan on seismic events
- M.2. There was a useful round table presentation of National Reports on recent regulatory issues and events. The Russian delegation provided information on recent changes that affected its nuclear regulatory system, and in response CNRA determined that the Chairman should assist the NEA/OECD in preparing a commentary.

**N. *International Atomic Energy Agency (IAEA) and European Commission (EC)*** – Received reports on current activities.

**O. *Special Presentation*** - CNRA gave special thanks to Jukka Laaksonen who was leaving the CNRA after more than 15 years as a member and 8 years as CNRA Chair.

**P. *Use of CNRA Results and Products***

- P.1. CNRA Members agreed to routinely have 3 or 4 countries report on how they have used (or not used) CNRA results and products<sup>2</sup> during the past year.

**Q. *Next Meetings*** – The following dates were agreed to:

- Q.1. *4th – 5th December 2008; Workshop on the Regulatory Lessons Learnt from Sump Pump Clogging Issues Workshop.*
- Q.2. *8th – 9th December 2008; 20th Annual CNRA Meeting.*
- Q.3. *8<sup>th</sup> – 9<sup>th</sup> June 2009: 2009 CNRA Summer Meeting.*

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<sup>2</sup> Results and Products refers to publications, information obtained at meetings, etc.

## SUMMARY RECORD – 2008 CNRA SUMMER MEETING

### GENERAL ISSUES – PART 1

1. The Chairman, Dr. Weightman opened the meeting.
2. The following changes in membership were noted: Mr. Vince Diamond, ARPANSA, Australia has retired, Eric Leeds replaces Jim Dyer who has been appointed Chief Financial Officer at NRC and will leave the CNRA, Benoit De Boeck replaces Jean-Jacques Van Binnebeek, Manfred Schrauben, Federal Agency for Nuclear Control in Belgium replaces Francis Molitor, Greg Rzentkowski, Director General, Directorate of Power Reactor Regulation, CNSC, Canada replacing Tom Viglasky and Tony Colgan, Radiological Protection Institute of Ireland was nominated as a new member.
3. The following changes in the NEA Secretariat were noted: Mr. Abdallah Amri has replaced Dr. Pekka Pyy and Mr. Radomir Rehacek has replaced Willem Van Doesburg.
4. The agenda [NEA/SEN/NRA/A(2008)1] was adopted, with some minor changes.
5. At the end of the second day, Mr. Echávarri, NEA Director General briefly reviewed the results of the NEA Steering Committee meeting and OECD and NEA activities of interest to the CNRA.

### *Co-ordination with the CSNI*

6. Dr. Hahn, Chair of CSNI, provided a brief overview of current CSNI activities and NEA joint research projects, including new proposals to be presented to CSNI later this week.

### *Co-operation on Regulatory Activities*

7. ***Multinational Design Evaluation Programme (MDEP)*** – Mr. Reig provided a brief update on the results of the of MDEP pilot project. He noted that the Policy Group had agreed to continuation of MDEP as a single project beginning with two Design Specific Groups (EPR and AP1000) and three Issues Specific Groups (Codes and Standards, Vendor Inspection Cooperation and Digital I&C Standards). The Chairman noted that it is evident that the work on MDEP is close to the work CNRA performs in this area and there is a need to closely coordinate activities to avoid duplication.
8. ***Western European Nuclear Regulators' Association (WENRA) and the European High Level Group on Nuclear Safety and Radioactive Waste Management*** – Mr. Brandejs provided an update on WENRA harmonisation of reactor safety and planned activities on waste and decommissioning. Mr. Stritar reported on recent current activities by the HLG. CNRA noted the developments in this area and the intentions to complement existing national and international arrangements.
9. ***Lessons Learnt for the Convention on Nuclear Safety (CNS)*** – A general discussion was held on the outcomes from the CNS. Members noted that a number of topics were highlighted in the final report the CNRA should review these and take them into account when developing the next strategic plan.

## **CNRA Programme of Work**

### ***CNRA Bureau***

10. The Chairman presented the results of the Spring 2008 Bureau meeting including a review of the Working Group programmes and initial discussions relating to the next Strategic Plan. He noted that the recommendations on the working groups would be reviewed later under the specific agenda items.
11. Regarding the new strategic plan, the Bureau agreed that the most of the main challenges in the previous plan remain relevant albeit they need to be revised along the lines of work in the current operating plan (to better define the challenge and the regulatory concerns). The Bureau is proposing that the main challenges be revised accordingly and in developing the new plan the Bureau should assign the proper priorities for each challenge and the supporting programme of work elements.
12. The Chairman with the assistance of the Secretariat and a small subgroup of the Bureau will draft a new strategic plan including an introduction to provide a basis for the future work including but not limited to the main mission and vision, sense of the current environment and to define the purpose of CNRA and how it interfaces with other committees and international organisations. The draft plan will be discussed at the next Bureau meeting and presented to the CNRA in December 2008.
13. The CNRA agreed to this proposal and added that the new plan would be coordinated with the CSNI.

## **CNRA WORKING GROUPS**

### ***Working Group on Operating Experience (WGOE)***

14. Ms. McDonald, Chair of WGOE provided a presentation which covered the current programme of work including current membership, the WGOE programme of work including a proposal for a revised mandate and WGOE recommendations on implementation of the International Operating Experience Feedback (IOEF) Report and information on the Incident Reporting System (IRS).
15. In summary, Ms. McDonald noted that WGOE was requesting CNRA approval for: the next 2 meetings (CNRA Bureau recommendation to have 2 meetings per year)<sup>3</sup>, a new Mandate, provide support for and needed actions relating to the IOEF Implementation Programme, provide a protocol for coordinating work with CSNI Working Groups and continuation of programme of work for 2008.

### ***Mandate***

16. A detailed discussion ensued on the proposed mandate and how WGOE should carry out its work. This included input from the Chairman of CSNI on better coordination and cooperation and the way WGOE should identify safety issues that derive from operating experience for consideration by the CSNI in relation to additional research. CNRA members also suggested several provisions on how to carry out the mandate.
17. The **revised Mandate was approved** (attached as Appendix C) subject to any comments received by members of the **CSNI in the next 4 weeks, and any coming from the Joint Bureau Meeting**. It provides the overall scope and objectives for the group. It was further agreed that the provisions

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<sup>3</sup> 5<sup>th</sup> – 7<sup>th</sup> November 2008, NEA Headquarters and 27<sup>th</sup> – 29<sup>th</sup> May 2009 (United States – proposal to hold in US so that members can learn more on national OE programmes).

discussed at this meeting on how these should be carried out be included in the summary record of the meeting. **These were as follows:**

- 17.1. At each of its meetings, WGOE will review events having safety issues with generic importance that need to be addressed from a regulatory viewpoint. More specifically:
  - 17.1.1. WGOE will separate its work involving the review of events from that performed by the IRS as defined in the IOEF report.
  - 17.1.2. WGOE Chair and Vice-Chairs will pre-select (in advance of the meeting) a number internationally reported experiences that have provided generic lessons and new insights to report recipients in member countries.
  - 17.1.3. WGOE members will be requested to review their actions (and national OE data) on these issues and prepare for a round table discussion.
  - 17.1.4. Recommendations will be provided to the CNRA (regulatory issues) and the CSNI (technical issues) from these discussions. This may include production of topical reports on safety issues of common concern.
- 17.2. CNRA noted the need for the Joint Bureau to establish a protocol for handling requests/proposals from Working Groups in one Committee to the other Committee.
18. CNRA **approved the IOEF Implementation Plan** noting that it should not impact significantly on the workload of the WGOE as many actions were for others. In particular, the Joint Bureau would review the concept of an IOEF Management Board to oversee coordination between all IOEF systems. CNRA members also requested that WGOE review the progress of the recommendations in the IOEF implementation plan after 2 years
19. CNRA **approved continuation of the PoW for 2008/2009 including having 2 meetings per year.** CNRA approved the next 2 meetings taking place as follows; 5<sup>th</sup> – 7<sup>th</sup> November 2008, NEA Headquarters and 27<sup>th</sup> – 29<sup>th</sup> May 2009, United States.
20. CNRA noted that industry participation should be limited to observer status only, to preserve independence, but this should not prevent good dialogue.
21. CNRA welcomed the significant changes that had occurred in the group recently, especially the closer liaison with CSNI working groups. It noted that WGOE should be allowed adequate time to develop and execute its new programme of work in relation to screening of events before any reconsideration of its role or terms of reference.

***Working Group on Inspection Practices (WGIP)***

22. Mr. Lewis, Chairman of WGIP provided a presentation on the current programme of work which included results from the 9<sup>th</sup> International Workshop and the results of the 35<sup>th</sup> WGIP meeting.
23. Regarding the PoW he noted that more clarification is required on the objectives of WGOE to ensure effective coordination and accordingly, the Chairs and Task Group leaders of WGIP and WGOE need to meet and clarify how the objectives of WGIP (relating to improving inspection programmes) will be met. He stated that WGIP members had agreed on the final proceedings from the Digital I&C Inspection Workshop and are asking CNRA approval to publish them.

24. The Workshop was held last week in Haikko, Finland, hosted by STUK and approximately 50 inspectors participated. The topics were Training and Qualification of Inspectors, Integration of Inspection Findings and Inspections of New Plant under Construction. Participants noted that information exchanged during the discussion group sessions provided important feedback to their inspection programmes at home. He added that the main findings were contained in the slides and would be available on the NEA and STUK web sites shortly. A site visit was conducted at Olkiluoto 3.
25. Continuing he noted that several countries reported on how they had used WGIP Results and Products in the past period. This included: Netherlands (incorporation of the results of the Canadian (WGIP) and Chester (WGHOFF) Workshops on Safety Culture into their own programmes and obtained lessons learnt from WGIP discussions on Steam Generator issues), Germany (used results of Canadian (WGIP) and Chester (WGHOFF) Workshops on Safety Culture when upgrading inspection programmes), Korea (workshop process of having small discussion groups will be taken under discussion to improve internal processes), Canada (used results of informal (WGIP) survey on regulatory requirements for restart after major outage to change policies (It was noted that the quick response of WGIP members aided in providing an international reference point)), and Finland (workshop questionnaire on new build was directed to licensee to obtain better knowledge of their process).
26. Finally, he noted that WGIP members began discussions on potential areas of future work relating to inspection practices. Topics discussed included inspection of maintenance programmes, inspection of plant modifications, and inspection of corrective action programmes. It was agreed that progress by member countries on the inspection of safety culture showed the need for WGIP to monitor the emerging experience. WGIP agreed to have an in-depth discussion at the next meeting on the future programme of work. It was also noted that CNRA input into this process was important.
27. The next meeting of WGIP (36<sup>th</sup>) is scheduled for Veracruz, Mexico, 20<sup>th</sup> – 24<sup>th</sup> October 2008<sup>4</sup> (includes site visit to Laguna Verde). Members are proposing (requesting CNRA approval) the following schedule for upcoming meeting:
  - 27.1. 37<sup>th</sup> Meeting: Spain, Spring 2009
  - 27.2. 38<sup>th</sup> Meeting: Switzerland, Fall 2009
  - 27.3. 10<sup>th</sup> International Workshop and 39<sup>th</sup> Meeting, Netherlands, Spring 2010. Mr. Lewis noted that the Netherlands originally requested to host the 9<sup>th</sup> Workshop. Due to decision to have 9<sup>th</sup> Workshop in Finland, CNRA agreed in principle that the 10<sup>th</sup> Workshop (if approved) would be held in the Netherlands.
28. CNRA members noted the current status of the task on Inspection of fire protection programmes (in conjunction with WGOE), agreed **to publication of the proceedings of Digital I&C Inspections Workshop** and received the results from the 9<sup>th</sup> WGIP International Workshop. CNRA welcomed the discussions on new tasks and **agreed to have an in-depth discussion on the future role of WGIP at its next meeting**. The Chairman noted the need to coordinate WGIP work with other CNRA groups, especially the WGRNR.
29. After a short discussion involving consideration of the resource implications of holding meetings outside Paris, CNRA members also **approved the next 3 meetings of WGIP and to have a 10<sup>th</sup> WGIP International Workshop on Regulatory Inspection Practices in the Netherlands** in Spring 2010.

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<sup>4</sup> Approved by CNRA at 2007 Summer Meeting.

***Working Group on Public Communication (WGPC)***

30. Mr. Chaniel, Chair of WGPC reported on current membership and activities including the flash news email information exchange system, the final draft of the report on the outcome of the three CNRA/WGPC Workshops, and proposals for the future WGPC PoW.
31. The objective of the workshop report was to summarise lessons learned from the three Workshops and related activities, assess their influence on the developments in NROs' Public Communication (PC), and propose future work.
32. Among the observations made he noted that there is increasing importance given by the general public for having regulatory transparency (since 2006, all OECD countries have a Freedom of Information Act) and as a consequence public communication of most NROs has tremendously developed during the past few years. Despite cultural differences, there are more and more common principles and practices between countries for NROs communicating with the public
33. Continuing he described the main lessons learned including: communication plans and NRO web sites have been developed by many NROs, stakeholder involvement appeared a necessary practice to help the enhancement of safety and to support public confidence. The NRO communicators' network has become essential for consistently informing public of different countries about a same "event". Remaining Challenges included: improving the understanding and the practices for transparency, adequately informing the local public, surveying the public perception, and communicating with the Public during emergencies.
34. In addition to continuing the communicators' network, WGPC identified four areas for future work. WGPC members are requesting CNRA approval of the first 3 for inclusion in the current PoW. The proposals are: (1) information of local public (to provide guidance on developing relationship between NRO and the local public about the status of nuclear and radiation safety); (2) surveying public perception (to develop good practice guidance for NROs on measuring public perception in order to more accurately take account of public attitudes in the regulatory processes; (3) transparency in NRO activity (to establish good practice guidance for NROs on implementation of lessons learned from the 2007 Workshop on Transparency, taking account of subsequent developments and including advising on the balance between openness and necessary confidentiality restrictions, in order to promote public confidence and consistency of practice across Regulators, where appropriate; and (4) emergency Communication (to expand the guidance developed about "abnormal situations" to emergency situations and other events or rumours that through the media may affect public trust in NROs).
35. CNRA members discussed the role of WGPC and agreed to continue the work of this group. CNRA members also agreed to the proposed programme of work and for the group to have its next meeting (10<sup>th</sup>) in Budapest next spring.

***Working Group on the Regulation of New Reactors (WGRNR)***

36. Mr. Jim Wiggins presented the report from the Working Group. The Chair of WGRNR is Laura Dudes (US NRC) and the Secretary (Mr. Huerta) were unable to attend the CNRA and sent their regrets. He reported on the current membership and the results of the first meeting last month. This included an extensive exchange of information on member countries activities on new regulatory issues related to siting, licensing and oversight of new commercial nuclear power reactors.

37. The group reviewed the mandate and suggest the following changes (in italics) for CNRA approval:

37.1. Second bullet in the scope:

WGRNR should co-ordinate its work with the work performed by the Multinational Design Evaluation Programme (MDEP) such that: it utilises its outputs and does not duplicate its efforts; extends the results of MDEP to other CNRA members and *in coordination with MDEP plans for the transition of MDEP into CNRA.*

37.2. Second bullet in the methods of working:

Closely co-ordinate its work with the *CNRA Working Group on Inspection Practices and the Working Group on Operating Experience and the CSNI Working Group on Risk Assessment and Working Group on Human and Organisational Factors* such that each of the respective groups use the expertise of the individual groups and do not duplicate efforts

38. Regarding the PoW, WGRNR discussed 3 issues development of a construction experience database, regulation of nuclear sites and communication with other groups.

39. WGRNR members agreed on the importance of developing a construction experience database and decided on the following actions: collection of inspection findings during constructions of new nuclear power plants as well as large modifications and the need to develop criteria for reporting. The US NRC with the support from Switzerland HSK and Spain CSN will develop by June 30, 2008 the scheme of the database on inspections findings during construction such as the objective, definition, scope and criteria.

40. Regarding the regulation of nuclear sites, WGRNR members agreed on the initial steps to review the various practices used by regulators in the regulation of nuclear power plant siting. Canada, EC JRC and Slovak Republic will develop by the June 30, 2008 a survey on the regulation of nuclear sites including seismicity issues, security issues, multi-units aspects and regulator practices on sites where a mixture of activities are taking place (e.g., operating units, new construction, decommissioning, etc.).

41. The group discussed communication with other groups and noted that it is important to coordinate its activities with the ones developed at MDEP, CNRA Working Groups, CSNI, WENRA, and other international organisation. WGRNR members agreed to have presentations by a member of the MDEP Steering Technical Committee and members of two of the MDEP issue specific working groups (Vendor Inspection Cooperation Working Group and Codes and Standards Working Group) as well as a presentation by WENRA at the next WGRNR meeting. In addition the Chairperson will contact the Chairs of the CNRA WGIP, WGOE as well as the CSNI WGRisk and WGHOE in order to closely-coordinate the activities of the WGRNR with others groups.

42. Following discussion CNRA members **approved the revised Mandate and the initial programme of work which includes development of a construction experience database and review of licensing practices used in nuclear power plant siting.** CNRA members also approved the next two meetings; 29<sup>th</sup> – 31<sup>st</sup> October, 2008, NEA Headquarters and Early 2009, location to be determined – a proposal was put forward to hold in a member country where new construction is taking place.

43. CNRA members also encouraged member countries not yet participating in the group to nominate members.

## REGULATORY FORUMS AND WORKSHOPS

### *International Workshop on the Feedback on Sump Clogging*

44. Mr. Niel provided a presentation on the proposed programme for the workshop (attached as Appendix D). In addition to the countries noted below other countries were asked to contribute to Session 2 or 3<sup>5</sup>. The proposed programme consisted of the following sessions:

- 44.1. Session 1: ***Status of the Issue*** including Status regarding technical issues (overview by NEA CSNI representative) and Status regarding communications with stakeholders (overview by NEA CNRA representative).
- 44.2. Session 2: ***Regulatory Approaches and Requirements Regarding Sump Clogging*** Presentations by regulators including Canada, France, Germany, Finland and the United States.
- 44.3. Session 3: ***Industrial Solutions and their Safety Assessment*** Presentations from Industry on operating reactors including France, United States, Germany, Czech Republic, Hungary or Slovak Republic, Japan and Sweden and presentations from industry on future reactors including Finland (EPR), United States (AP1000 and ESBWR), Canada – Candu (AECL) and Bulgaria – WWER 1000 operator/vendor.
- 44.4. Session 4: ***Future Developments and Unresolved Issues*** including debris generation, chemical impacts, etc. Presentations from France (IRSN) on the State of play of the recirculation function, the United States (Title: GSI-191 current status and further activities) and Industry (Areva) on Assurance of long term core cooling.

45. CNRA members agreed on the proposed programme for the workshop and the concept to setup a Knowledge Base web site for collecting information especially from ongoing CSNI work (Germany will offer the platform and control progress).

46. The Chairman noted that CSNI participation was welcomed and that information from previous workshops and reports produced by them (e.g., WGAMA) should<sup>6</sup> be added to the knowledge base. The Secretariat will coordinate with members to confirm speakers and presentations for the various sessions.

## Exchange of Information

### *Presentation on Human and Organisational Factors*

47. Dr. Reiersen, Chair of CSNI/WGHOF provided a detailed and useful presentation on the work of the group. This included information on what the group does, recent and planned activities and how this work relates to regulatory matters. Recent activities included workshops on Management of Organisational Change, Safety Management, Human Factors in Plant Modification Process, Human Performance in Nuclear Plant Maintenance, Future Control Room Designs and Maintaining Oversight of Licensee Safety Culture (with WGIP).

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<sup>5</sup> Countries wishing to take part should contact the NEA Secretariat prior to 15 September 2008.

<sup>6</sup> CNRA would request this at the joint Bureau Meeting and the CSNI meeting later this week.

48. Continuing he noted the current PoW includes justification of organisational suitability, overcoming barriers to effective treatment of HOF in event and root cause analysis, establishing a balance between the use of prescription and reliance on competence in procedures.
49. CNRA Members discussed the work in detail and noted the importance of this issue and the needs to have close cooperation and coordination with CNRA and its working groups.

### ***Exchange of Information***

#### *Events of Particular Significance*

50. Special presentations were made by; United States on dissimilar butt welds, Spain on Ascó event, Finland on TVO event, Slovenia on Krsko event, France on concrete rebar issues, and Japan on seismic events.

#### *Round Table of National Reports on recent regulatory issues and events*

51. There was a useful exchange of information from members reports. In particular, the Russian delegation provided an update on recent changes in their regulatory arrangements. It was determined that the Chairman should assist NEA/OECD in providing a commentary.

## **GENERAL ISSUES – PART 2**

### **Coordination with other NEA Standing Committees and International Organisations on Regulatory Activities**

#### ***International Atomic Energy Agency (IAEA)***

52. Mr. Caruso provided an update of an update of recent activities was provided including information on IRRS and safety standards, a regulatory framework for embarking countries and a brief summary of the results from the CNS.

#### ***European Commission (EC)***

53. An update was provided by Mr. Holden on information on the actions of the European Council including European Nuclear Energy Forum, High Level Group, ongoing studies and special Eurobarometer on Radioactive Waste.

### **Procedure**

#### ***Membership***

54. CNRA Members elected Mr. Eric Leeds, United States to replace Mr. Dyer as Vice-Chair and Marta Ziaková, Slovak Republic to replace Prof. Laaksonen on the CNRA Bureau.

#### ***Special Presentation***

55. ***CNRA gave special thanks to Jukka Laaksonen who was leaving the CNRA after over 15 years as a member and 8 years as CNRA Chair.***

***Use of CNRA Results and Products***

56. The Chairman noted that this item has not generated the feedback that was originally expected. In order to bring forward he proposed that 3 or 4 countries routinely report on how they have used (or not used) CNRA results and products<sup>7</sup> during the past year. The Secretariat was requested to arrange this for the next meeting.

***Next Meetings***

57. CNRA Members agreed on the following meeting schedule for 2008/2009

- 57.1. *4th – 5th December 2008; Workshop on the Regulatory Lessons Learnt from Sump Pump Clogging Issues Workshop.*
- 57.2. *8th – 9th December 2008; 20th Annual CNRA Meeting.*
- 57.3. *8<sup>th</sup> – 9<sup>th</sup> June 2009: 2009 CNRA Summer Meeting.*

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<sup>7</sup> Results and Products refers to publications, information obtained at meetings, etc.

**Appendix A**

*Meeting Participants*

**AUSTRIA**

Dr. Viktor KARG

**BELGIUM**

Mr. Benoit DE BOECK

Mr. Manfred SCHRAUBEN

**CANADA**

Mr. Peter ELDER

Mr. Gerry FRAPPIER

Mr. Ian GRANT

**CZECH REPUBLIC**

Mr.. Petr BANDEJS

**FINLAND**

Prof. Jukka LAAKSONEN

Dr. Kirsi LEVA

Dr. Lasse REIMAN

**FRANCE**

Mr. Claude BARBALAT

Mr. Jean Christophe NIEL

**GERMANY**

Mr. Lothar HAHN (part-time)

Dr. Michael HERTTRICH

Dr. Hartmut KLONK

Dr. Jürgen WOLF

**ITALY**

Mr. Roberto RANIERI

**JAPAN**

Mr. Nobou TANAKA

Dr. Takeo ONCHI

Dr. Yoshinoro OZAWA

Mr. Tomoho YAMADA

**MEXICO**

Mr. Sergio WALLER MEJIA

**NETHERLANDS**

Dr. Ir. Marli VOGELS

**NORWAY**

Mr. Ole REISTAD

**PORTUGAL**

Mr. Jose CARVALHO SOARES

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**UNITED KINGDOM**

Dr. Len CRESWELL

Mr. Stephen LEWIS

Ms. Kulvinder MCDONALD

Dr. Craig REIERSEN

Dr. Mike WEIGHTMAN

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NEA/SEN/NRA(2008)1

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Mr. Luis ECHÁVARRI

Mr. Javier REIG

Mr. Barry KAUFER

Dr. Carlo VITANZA

Mr. Axel BREEST

**Appendix B**

<b>List of CNRA Meetings 2008 / 2009</b>	
<b>2008</b>	
36 <sup>th</sup> WGIP Meeting	20 <sup>th</sup> – 24 <sup>th</sup> October, Veracruz, Mexico
Workshop on Lessons Learnt from Sump Pump Clogging Issues	4 <sup>th</sup> – 5 <sup>th</sup> December, OECD Headquarters
20 <sup>th</sup> Annual CNRA Meeting	8 <sup>th</sup> – 9 <sup>th</sup> December, NEA Headquarters
2 <sup>nd</sup> WGRNR Meeting	29 <sup>th</sup> – 31 <sup>st</sup> October, NEA Headquarters
4 <sup>th</sup> WGOE Meeting	5 <sup>th</sup> – 7 <sup>th</sup> November, NEA Headquarters
<b>2009</b>	
10 <sup>th</sup> WGPC Meeting	28 <sup>th</sup> – 30 <sup>th</sup> April, Budapest, Hungary
5 <sup>th</sup> WGOE Meeting	27 <sup>th</sup> – 29 <sup>th</sup> May, United States
37 <sup>th</sup> WGIP Meeting	Spring, Spain
3 <sup>rd</sup> WGRNR Meeting	Spring, to be determined
2009 CNRA Summer Meeting	8 <sup>th</sup> – 9 <sup>th</sup> June, NEA Headquarters
38 <sup>th</sup> WGIP Meeting	Fall, Switzerland

<b>Preliminary List of Other Meetings of Interest to CNRA 2008 / 2009</b>	
CSNI/GAMA Annual Meeting	23 <sup>rd</sup> – 26 <sup>th</sup> September, NEA Headquarters
CSNI/WGFS	11 <sup>th</sup> – 12 <sup>th</sup> September, Interlaken, Switzerland
CSNI/WGFCS	11 <sup>th</sup> – 12 <sup>th</sup> September, NEA Headquarters
44 <sup>th</sup> CSNI Meeting	10 <sup>th</sup> – 11 <sup>th</sup> December, NEA Headquarters

## Appendix C

### WGOE Mandate

#### *Main Objectives*

The working group shall constitute an international forum for the exchange and analysis of operating experience for the determination of safety issues from a regulatory viewpoint. It will also identify safety issues that derive from operating experience for consideration by the CSNI in relation to additional research. WGOE, with the agreement of CNRA, will plan its work to promote improvements in nuclear safety at nuclear installations, with primary focus on Nuclear Power Plants (NPPs).

To this end, the working group shall:

1. Exchange, analyse and provide expert insights and knowledge from relevant operating experience to reach timely conclusions on lessons learned, trends, and effectiveness of responses. Prepare reports, disseminate conclusions and sponsor international workshops on use of operating experience for improving nuclear safety.
2. If necessary, provide feedback to IRS Advisory Committee on areas for system improvement in the context of WGOE objectives.
3. Compare, and where possible benchmark, international practices and methodologies applied by Member countries in the assessment and utilisation of operating experience.
4. Maximise the benefit of co-operation with existing NEA working groups and other international organisations (e.g. IAEA, EC, WANO, etc).

The above activities are aimed at promoting proposals for:

- a. Re-assessment of safety
- b. New or revised regulatory practices
- c. Enhancements in systems, structures and components.
- d. Enhancements in human and organisational factors
- e. Additional research
- f. Other actions to maintain and improve safety.

#### *Methods of Working*

Annually, the WGOE will prepare a plan of work, which addresses the programme of work elements in the CNRA Operating Plan and future regulatory challenges for agreement by the CNRA.

WGOE will closely interact with the Working Group on Inspection Practices (WGIP) and the Working Group on Regulation of New Reactors (WGRNR), and other relevant CNRA and CSNI working groups.

With CNRA's agreement, WGOE will collaborate with, and assist other NEA committees and international organisations.

## Appendix D

**International workshop****Taking account of feedback on sump clogging****PARIS, December 4-5<sup>th</sup>, 2008**

Day 1	Morning	<p><b>10:00</b> Welcome to participants Opening (by the NEA and Mr. Lacoste)</p> <p><b>Session 1: Status of the issue</b></p> <p><b>11:00</b> Status regarding technical issues – overview by NEA CSNI representative Status regarding communications with stakeholders – overview by NEA CNRA representative</p> <p><b>12:00</b> General discussion</p>
	Afternoon	<p><b>Session 2: Regulatory approaches and requirements regarding sump clogging</b></p> <p><b>14:00</b> Presentations by countries</p> <p>Canada – CNSC France – ASN/IRSN Germany – BMU/GRS Finland - STUK US-NRC</p> <p><b>16:30</b> General discussion</p>
Day 2	Morning	<p><b>Session 3: Industrial solutions and their safety assessment</b></p> <p><b>9:00</b> Operating reactors</p> <p>France - EDF USA – Industry (NEI or Owners Group, ..) Germany – Industry (VGB, ..) Czech Republic/Hungary/Slovakia – WWER operators/ Japan – Industry Sweden - Vattenfall</p>

**11:00** Future reactors:

Finland - EPR (STUK or TVO)

US – AP1000 - ESBWR – Westinghouse/GE

Canada – Candu (AECL)

Bulgaria – WWER 1000 operator/vendor

**12: 00** General discussion

Afternoon **14:00 Session 4: Future developments and unresolved issues** (Debris generation, chemical impacts, etc.)

France - IRSN – State of play of the recirculation function

US – NRC (Title: GSI-191 current status and further activities)

Industry – AREVA (?) (Title: Assurance of long term core cooling )

**15:30** General discussion and conclusion (any future actions to undertake or pursue)

**16:30** Wrap-up (by the NEA and Mr. Lacoste)

17:00 Adjourn