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NUCLEAR ENERGY AGENCY

English text only

**Committee on Nuclear Regulatory Activities
Working Group on the Regulation of New Reactors**

**Summary Record of the 11th Meeting of the CNRA Working Group on the Regulation of New Reactors
(WGRNR)**

OECD Headquarters, Paris, France

8-9 October 2013

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**OECD Headquarters
Paris, France**

8 - 9 October 2013

The eleventh (11th) WGRNR meeting in the Committee of Nuclear Regulatory Activities (CNRA) was held on 8-9 October 2013 at the OECD Headquarters, Paris, France. The following is the summary record of the meeting. Presentations and papers from the meeting have been posted in the WGRNR member's working area of the NEA web site. The list of the participants is included as Appendix A. The status of WGRNR action items is in Appendix B.

OPENING

- 1. Opening and introductory remarks.** Mr. Gibson, WGRNR Chair, opened the meeting and welcomed the participants. He asked participants to introduce themselves. Apologies for absence were received from Mr. Haluska (UJD, Slovak Republic), Mr. Ismail and Wibowo (BAPETEN, Indonesia), Mr. Koley (AERB, India), Mr. Jansen (Ministry of Environment, The Netherlands), Mr. Klein Meulekamp (FANC, Belgium) and Mr. Shuaibi and Downey (USA, NRC). NEA Secretariat noted some changes in the WGRNR membership. Mr. Sakamoto (JNES, Japan) is replaced by Mr. Ui, Mr. Koenick (IAEA) is replaced by Mr. Jones and Mr. van Lonkhuyzen (Ministry of Environment, The Netherlands) and Mr. Joyer (ASN, France) become new members of WGRNR. NEA Secretariat also announced that Slovenia and Spain will not be able to commit in the group's work until further notification. The Chair thanked Mrs. Peršič (SNSA, Slovenia) for her commitment in the group and expressed his strong gratitude to Mr. Balmisa (CSN, Spain) for his crucial and central role in the work of the group and in particular the very valuable work he has done on ConEx. Then, the Chair acknowledged the difficulty to clear time to work on international activities but he encouraged delegates to allocate a slot time per month to the group's work.
- 2. Adoption of the meeting agenda.** Members adopted the agenda [[NEA/SEN/NRA/WGRNR/A\(2013\)2](#)]. The order of the topics has been adapted to the availability of U.S.NRC delegates to participate by teleconference.
- 3. Approval of the 10th meeting summary record.** No comments were raised about the accuracy of the summary record of the 10th meeting [[NEA/SEN/NRA/WGRNR\(2013\)1](#)]. Upon agreement, the 10th WGRNR meeting summary record was approved.
- 4. Report on relevant NEA CNRA activities.** Mr. Reig, NEA provided a brief discussion on items of interest for WGRNR members. He noted the composition of the WGRNR has significantly changed after the Fukushima Daiichi Nuclear Power Plant Accident. The activities of the group are getting closer to those of MDEP and there is danger of duplication. He recommended that WGRNR delegates interact with their MDEP representative to identify in which framework the different actions would better fit. Mr. Reig also encouraged delegates to get involved in activities directly aligned with the tasks they are currently dealing with in their organisations so that the investment is costless and can most effectively feedback the domestic tasks and issues. He announced that the report, *The Fukushima Daiichi Nuclear Power Plant Accident: OECD//NEA Nuclear Safety Response and Lessons Learnt* was recently issued and is available on the NEA website. This report has two main parts; what the countries have done, and what the NEA is doing through three of its standing technical committees (CNRA, CSNI and CRPPH). The

report has been provided to the IAEA for its use and reference. He said that delegates can be provided with hard copy under request.

The NEA Secretariat gave a concise presentation on the relevant CNRA activities. She introduced the new Deputy Director of NEA, Mr. Kazuo Shimomura who is in charge of safety and regulation. He replaced Mr. Yoshimura from the end of August. She gave feedback of the June 2013 CNRA meeting. She also provided status on a few other CNRA items. Of note, was that the CNRA bureau asked working groups to use the existing (but rarely used) CNRA proposal process described in the CNRA Operating Plan and Guidelines (2011-2016) to request approval for new tasks.

WGRNR PROGRAMME OF WORK

5. Proceedings of the Second International WGRNR Workshop. The NEA Secretariat explained that the proceedings from the 2nd workshop on “New Reactor Siting, Licensing and Construction Experience”, that was held in Atlanta, Georgia, USA on 24-26 October 2012 have been approved by the Chair and currently are being formatted. WGRNR delegates will be informed when they will be published.

6. ConEx Programme

6.1. Renewing of ConEx group lead and Clearinghouse membership. The previous leader of this task, Mr. Balmisa, Spain, has left the group. Consequently members were asked if anyone would step in to the role. With many thanks, Mr. Nevalainen, Finland volunteered to lead this task group until March 2014. Delegates were then requested to consider the new leadership from March 2014 (**ACTION 11- 1**).

The group agreed on the necessity to re-organise the process regarding the approval of the events reported in the ConEx database and also regarding the work to be performed for the task in general.

The group decided to stop reviewing the events during the one day ConEx meeting preceding the WGRNR meeting and to nominate a pool of reviewers. Each event of the ConEx data base in the status of “ready for QA” will be reviewed by two reviewers. The two reviewers will be selected by the NEA secretariat among the pool of reviewers, ideally one reviewer from a country assessing the same design as that described in the event, the other reviewer from a country planning to build new reactors or from an international organisation. The two reviewers will provide their comments separately to NEA secretariat by e-mail. NEA secretariat will whether return comments to the national point of contact or approve the event according to the ConEx database flowchart. The criteria to review the events will be precisely defined by the ConEx group. Overall, the process is not intended to be a technical review of the events, the reviewers should not rewrite or reinvestigate the event. The reviewers should check whether the information provided is clear, understandable and not too design-specific in order for the database users to learn from the event. Delegates are requested to designate a reviewer for their country (**ACTION 11- 2**) by 24 October 2013. Countries that have not yet designated their “editors” or “national point of contact” are kindly asked to do so also by 24 October 2013 (**ACTION 11- 3**).

Regarding the content of the task, it was agreed to clearly identify a ConEx group in charge of:

- enhancing the ConEx database process (e.g.: updating the ConEx database procedure, preparing a check list for reviewers, considering the necessity to add fields in the database such as a field for key words, etc.);

- preparing the next synthesis report;
- exploiting the data (e.g.: development of safety cards, of a table matching event lessons learned and inspection procedures, etc.).

Delegates willing to be part of the ConEx group are requested to inform NEA secretariat by 24 October 2013 (**ACTION 11- 4**). The current list of ConEx users, reviewers and members of the ConEx group is in Appendix C.

A working plan will be proposed by the task leader as soon as the ConEx group is formed. Two volunteers from the ConEx group will be required to update the ConEx procedure (**ACTION 11- 5**). The new version of the ConEx procedure should be submitted to WGRNR for approval at its 12th meeting (**ACTION 11- 6**). The 12th WGRNR meeting will be preceded by a one-day meeting dedicated to ConEx.

6.2. Status of ConEx database and steps to follow for the preparation of the second synthesis report. The ConEx task leader expressed his satisfaction that there are 80 events reported in the database and encouraged member countries to continue their efforts. He reminded them of the interest in gathering events from all building countries.

Some volunteers among the ConEx group will be requested to work on the second synthesis report (**ACTION 11- 7**). The sub-group will have to determine the content of the report by the end of 2013 (**ACTION 11- 8**) and to prepare a draft report to be discussed at the 12th WGRNR meeting (**ACTION 11- 9**).

6.3. Presentation of the US NRC - part 52 (Votgle and V.C. Summer) and part 50 (Watts Bar). As Mr. Shuaibi could not physically attend the meeting, the Chair gave the presentation on the US NRC - part 52 (Votgle and V.C. Summer) and part 50 (Watts Bar).

6.4. Report on member countries' construction experience submittals. It was noted that a large number of events reported in the database concern the supply chain and welding. Based on EC/JRC feedback experience, construction defects can be revealed 4 to 8 years later so important input for ConEx database can come from operating experience.

6.5. Round table discussion/presentations on the use of the ConEx Programme by member countries. The participants to the ConEx meeting agreed to define the scope of the database as:

- events initiated before the first fuel loading relating to manufacturing on-site or off-site, construction, commissioning and design and detected at any stage of the plant life;
- events whose root causes are in the design or construction phase.

The possibility of including events relating to large modifications, and construction findings of other nuclear facilities as part of the scope of the database was discussed again on the ConEx meeting preceding the WGRNR meeting. The group concluded that events initiated after the first fuel loading, including those events related to large modifications, are covered by the IRS database. The group also agreed not to extend the database to other nuclear facilities at present time based on the fact that a separate database for operating experience exists for other facilities.

6.6. Training in the use of the ConEx database. Live training was given by Mr. Bossant, NEA IT Administrator of the database.

6.7. Definition of options to be proposed at the CNRA December 2013 meeting regarding the access to the ConEx database by the industry. Members discussed the ConEx access policy and the possibility of granting access to the industry. It was concluded that the database is not mature enough yet to be opened to others but that the door is not closed for the future. There is a need to gather more information to build a position regarding this question (**ACTION 11- 10**) such as:

- to discuss with the industrial representatives (CORDEL, WANO, ...) whether a database exists for industry;
- to discuss with other international organisations how they manage the access of their databases and the challenges they faced when opening them (IAEA for IRS database, EC/JRC, aircraft manufacturers, ...).

7. Regulation of site selection and preparation - Status of the final report of the WGRNR siting survey-supplement 2. Countries which responded to the supplemental survey are expected to provide Mr. Webster with their summary by 2 December 2013 (**ACTION 11- 11**). They will be incorporated into the draft supplemental report. The draft report will be submitted to the group for review on 2 January 2014 (**ACTION 11- 12**). Members are expected to provide Mr. Webster with their comments on the draft report by 3 February 2014 (**ACTION 11- 13**). The final draft report will be presented at the group at its 12th meeting for approval (**ACTION 11- 14**). The status of the draft report will be presented to CNRA at its December 2013 meeting. The report will be submitted to CNRA for approval at its June 2014 meeting (**ACTION 11- 15**).

8. Licensing structure of regulatory staff and regulatory licensing process – Status of the Phase 2 – Design. Mr. Downey reported on the current status of the Design phase of the survey. A draft report entitled “Report of the Survey on the Design Review of New Reactor Applications” is under preparation. At the 11th WGRNR meeting, the working group decided that the report will be divided into smaller volumes, covering one or two technical categories at a time.

- **Volume 1: Instrumentation and Control**

Given that more responses were provided for “Instrumentation and Control” (I&C) category, it was decided to use that category as the pilot for developing the format of the volumes of the Phase 2 report. A first draft of this report volume was sent for review to the members on 16 September 2013¹ (**ACTION 11- 16**). It was agreed that before 31 January 2014 (**ACTION 11- 17**):

- members who have responded to the survey provide a high level summary related to I&C and any updated information that they would like to have included in the report;
- members who are planning to respond to the I&C survey will provide the survey response (template available in the working area) and the high level summary together.

The final draft of the report volume 1 on I&C will be discussed at the 12th WGRNR meeting (**ACTION 11- 18**).

- **Volume 2: Civil Engineering Works and Structures**

The second volume of the report will cover “Civil Engineering Works and Structures”. It was agreed that members will provide the survey response by 3 March 2014 (template available in the working area) (**ACTION 11- 19**). The content of this volume will be discussed at the 12th WGRNR meeting (**ACTION 11- 20**).

- **Volume 3: to be determined**

¹. A new version of the draft report on I&C has been uploaded on the working area since the meeting.

The topic that will be covered by volume 3 is to be determined. It was agreed that members will provide Mr. Downey with their next topic of interest by 15 November 2013 (**ACTION 11- 21**).

9. Regulatory approaches regarding the licensing of Small Modular Reactors (SMR)

As one of the member countries particularly interested in the topic could not attend the meeting, the group decided to postpone the topic to the 12th WGRNR meeting. It was agreed to schedule for the next meeting:

- a presentation by the USA,
- a presentation by the Russian Federation,
- a presentation of the CORDEL's activities related to SMR,
- a discussion on the possible future activities of the group on that topic.

Mr. Jones, IAEA reported on the content and conclusions from the IAEA 6th INPRO Dialogue Forum which addressed "Licensing and Safety Issues for Small and Medium Sized Reactors (SMRs)" http://www.iaea.org/INPRO/6th_Dialogue_Forum/. One outcome of the meeting was for the IAEA to establish a "SMR Regulatory Forum" for the exchange of information and assistance in licensing SMRs. A Consultancy is to be held in February 2014 to determine its terms of reference. Mr. Jones also informed the group about the report issued in September 2012 by IAEA presenting an overview of the status of SMR designs "Status of small and medium sized reactor designs": <http://www.iaea.org/NuclearPower/Downloadable/SMR/files/smr-status-sep-2012.pdf>.

10. New regulatory issues related to siting, licensing and oversight of new commercial nuclear power reactors.

Delegates were invited to present an updated report on any new development in programmes and policies. The following presentations were given:

Country	Title of presentation(s)	Other WG to share
Japan	The new regulatory policy, requirements and guides for nuclear power plants in Japan	No
The Netherlands	Developments on new nuclear installations in The Netherlands	No
Korea	Licensing Status of Korean NPPs Current Safety Issue of Korea (Fabrication of QA Documents)	No No
Finland	Status on NPP's under construction in Finland	No
France	Flamanville 3 – Current status	No
Hungary	Regulatory preparation for new units	No
USA	The Status of New Reactor Licensing and Construction in the United States (Large Light Water Reactors)	No

11. Report from international organisations.

Representatives from international organisations presented the recent work they carried out linked to WGRNR activities.

Organisation	Title of presentation(s)	Other WG to share
EC	European Clearinghouse current activities	No
WENRA	WENRA and its expectations on the safety of new NPP	Known by MDEP
MDEP	MDEP	No

Mr. Jones, IAEA reported on the development of IAEA Specific Safety Guide (DS441), "Construction for Nuclear Installations", nears completion. Final approval from the IAEA's Commission on Safety Standards (CSS), in April 2014, would see publication later in that year. A Safety Report, "Development of a Regulatory Inspection Programme for a New Nuclear Power

Plant Project”, has been produced aimed at Countries embarking on a NPP programme for the first time.

12. Regulatory control.

12.1. Development of the activity on the regulatory control during construction. Phase 3 of the licensing survey dealing with construction oversight has been re-approved by the CNRA at its June 2013 meeting. The objective of this survey is to facilitate sharing of information related to construction oversight programmes, including scope of areas addressed through oversight programmes, level of effort and depth of expertise planned for each area covered, and any special/unique oversight practices (e.g., regulatory hold points or approvals). Mr. Shuaibi provided the group with a proposal of a survey. The survey is divided into 3 basic areas of oversight: Inspection, Assessment and Enforcement. A report summarizing practices of the countries could benefit the international community by allowing for benchmarking of practices or providing reference material for countries developing their oversight programs. Members are requested to provide NEA secretariat with their comments on the draft survey before 8 November 2013 (**ACTION 11- 22**). The Chair will present an overview of the survey to CNRA at its December 2013 meeting. The final survey will be presented by Mr. Shuaibi to the group at its 12th meeting (**ACTION 11- 23**). The answers from countries in position to respond to part of the survey only will be welcome.

12.4. Discussion on the development of the activity on the regulatory control during commissioning. The group expressed its interest to work on that topic. Priority and resources to be allocated to this task have to be determined. The Chair shared his thoughts on that topic which are as follows:

- the topic should be addressed through the regulatory approach,
- are pre-commissioning safety cases needed?
- which kind of power do regulators need to oversight commissioning?
- interphase with other oversight organisations,
- site/individual units approach.

The Chair will circulate his ideas by 25 October 2013 for discussion among the group (**ACTION 11- 24**). The Chair will report to CNRA the preliminary ideas of the group about how to address regulatory control during commissioning at its December 2013 meeting. Based on the feedback from CNRA, delegates willing to take part to the task and/or to lead it are requested to inform NEA secretariat by 2 January 2014 (**ACTION 11- 25**). Further discussion on planning of the task will take place during the 12th WGRNR meeting.

The 12th WGRNR meeting will be held on 20-21 March 2014, at OECD Headquarters, Room D, Paris, France. A one day meeting of the ConEx group will take place on 19 March 2014 at the same location.

The Chair thanked the WGRNR members and the NEA technical secretariat for their continued active participation and support.

Appendix A: List of Participants

CANADA

LAFRENIERE, Ken
Executive Advisor
Directorate of Power Reactor Regulation
P.O. Box 1046 Station B
280 Slater Street
Ottawa, Ontario, K1P 5S9

Tel: +1 613 947 8433
Eml: ken.lafreniere@cnsccsn.gc.ca

FINLAND

NEVALAINEN, Janne
Radiation and Nuclear Safety Authority (STUK)
Nuclear Reactor Regulation
Laippatie 4, P.O. Box 14
FI-00881 Helsinki

Tel: +358 9 759 88 682
Eml: janne.nevalainen@stuk.fi

FRANCE

HOUDRÉ, Thomas
Director
Nuclear Power Plant Department
Autorité de Sûreté Nucléaire (ASN)
15 rue Louis Lejeune, CS 70013
92541 Montrouge CEDEX

Tel: +33 1 46 16 42 61
Eml: thomas.houdre@asn.fr

JOYER, Philippe
Direction des centrales nucléaires
Autorité de Sûreté Nucléaire (ASN)
15 rue Louis Lejeune, CS 70013
92541 Montrouge CEDEX

Tel: +33 1 46 16 43 04
Eml: philippe.joyer@asn.fr

GERMANY

OLDENBURG, Justus
GRS, Reactor Safety Analyses Division
Schwertnergasse 1
50667 Cologne

Tel: +49 221 2068 876
Eml: justus.oldenburg@grs.de

HUNGARY

LEHOTA, Mihály
Department of Project Affairs
Hungarian Atomic Energy Authority
Fenyves Adolf utca 4
P.O.B. 676
H-1036 Budapest

Tel: +36 1 436 4807
Eml: lehota@haea.gov.hu

JAPAN

UI, Atsushi
Thermal Hydraulics Evaluation Group
Nuclear Energy System Safety Department
Japan Nuclear Energy Safety Organization (JNES)
4-1-28 Toranomon,
Minato-ku, Tokyo

Tel: +81 (3) 4511 1823
Eml: ui-atsushi@jnes.go.jp

KOREA (REPUBLIC OF)

KIM, Walter
Project Manager of Shin-Wolsong Unit 1&2
Korea Institute of Nuclear Safety(KINS)
Gwahak-ro 62, Yuseong-gu,
Daejeon, 305-338

Tel: +82 42 868 0226
Eml: wtkim@kins.re.kr

NETHERLANDS

VAN LONKHUYZEN, Wouter
Human Environment and Transport Inspectorate
Enforcement Nuclear and Radiation
Nieuwe Uitleg 1 (int. 560)
2514 BP Den Haag

Tel: +31 70 456 2082
Eml: wouter.van.lonkhuyzen@ilent.nl

POLAND

ZAGRAJEK, Marcin
Director
Department of Nuclear Safety
National Atomic Energy Agency (PAA)
ul. Krucza 36
00-522 Warsaw

Tel: +48 22 695 9728
Eml: marcin.zagrajek@paa.gov.pl

RUSSIAN FEDERATION

LANKIN, Mikhail
Head of NPP Safety Department
Scientific and Engineering Center for Nuc
SEC NRS
2/8, Build. 5, Malaya Krasnoselskaya ul.,
107140, Moscow

Tel: +7 499 753 05 36
Eml: lankin@secnrs.ru

SWEDEN

HALLMAN, Anders
Senior Analyst
Department of Nuclear Power Plant Safety
Swedish Radiation Safety Authority
SE-171 16 Stockholm

Tel: +46 8 799 42 42
Eml: anders.hallman@ssm.se

UNITED KINGDOM

GIBSON, Steve
Office for Nuclear Regulation
Redgrave Court
Merton Road
Bootle Merseyside L20 3LZ

Tel: +44 151 951 4954
Eml: steve.gibson@hse.gsi.gov.uk

UNITED STATES OF AMERICA
(by teleconference)

DOWNEY, Steven
Office of New Reactors
US Nuclear Regulatory Commission
11545 Rockville Pike,
Rockville, MD 20555

Tel: +1 301 415 8512
Eml: steven.downey@nrc.gov

SHUAIBI, Mohammed
Deputy Director, Division of Engineering
Office of New Reactors
US Nuclear Regulatory Commission
11545 Rockville Pike,
Rockville, MD 20555

Tel: +1 301 415 7192
Eml: mohammed.shuaibi@nrc.gov

International Organisations

IAEA

JONES, Geoffrey
Senior Safety Officer
International Atomic Energy Agency
Department of Nuclear Safety and Security
Division of Nuclear Installation Safety
Wagramer Strasse 5

Tel: +43 1 2600 26522
Eml: g.jones@iaea.org

EC/JRC

PEINADOR VEIRA, Miguel
European Commission
JRC Institute for Energy and Transport
Nuclear Reactor Safety Assessment Unit
Westerduinweg 3
1755 ZG Petten The Netherlands

Tel: +31 (0) 224 56 5176
Eml: miguel.peinador-veira@ec.europ.eu

WENRA representative

MULLER-ECKER, Dieter
Gesellschaft fuer Anlagen- und Reaktorsic
Reactor Safety Analysis Division
Schwertnergasse 1, 50667 Köln

Tel: +49 221 2068 748
Eml: dieter.mueller-ecker@grs.de

NEA

HUSSE, Julien
OECD-NEA / Nuclear Safety Division
Le Seine St-Germain
12 boulevard des Iles
92130 Issy-Les-Moulineaux

Tel: +33 1 45 24 11 52
Eml: julien.husse@oecd.org

KIM, Byung-Soon
OECD-NEA / Nuclear Safety Division
Le Seine St-Germain
12 boulevard des Iles
92130 Issy-Les-Moulineaux

Tel: +33 1 45 24 11 53
Eml: byung-soon.kim@oecd.org

LORIN, Aurélie
OECD-NEA / Nuclear Safety Division
Le Seine St-Germain
12 boulevard des Iles
92130 Issy-Les-Moulineaux

Tel: +33 1 45 24 10 57
Eml: aurelie.lorin@oecd.org

Appendix B: Status of WGRNR Action Items

N°	Action	People involved	Deadline	Status
ConEx				
11- 1	Determine new leader for the task.	All	19 March 2014	On going
11- 2	Designate a reviewer for events posted in the ConEx database.	Volunteered countries and organisations	24 Oct. 2013	Planned
11- 3	Designate “editors” or “national point of contact” for ConEx database.	Member countries	24 Oct. 2013	Planned
11- 4	Designate members of the ConEx group.	Volunteered countries and organisations	24 Oct. 2013	Planned
11- 5	Designate volunteers from the ConEx group to update the ConEx procedure.	Volunteered countries and organisations	2 Jan. 2014	On going
11- 6	Submit the new version of the ConEx procedure to WGRNR for approval.	ConEx task leader + 2 volunteers	19 March 2014	Planned
11- 7	Designate volunteers from the ConEx group to work on the second synthesis report.	Volunteered countries and organisations	15 Nov. 2013	On going
11- 8	Determine the content of the second synthesis report.	ConEx task leader + volunteers	20 Dec. 2013	Planned
11- 9	Prepare a draft for the second synthesis report.	ConEx task leader + volunteers	19 March 2014	Planned
11- 10	Expand inputs to address the question of access to the ConEx database by the industry.	NEA secretariat	asap	On going
Regulation of site selection and preparation - Supplement 2				
11- 11	Provide country summaries.	Countries which responded to the supplemental survey except Canada and France (India, Japan, Korea, Slovenia, Slovak Republic, UK, USA).	2 Dec. 2013	On going
11- 12	Submit draft report to the group for review.	Mr. Webster	2 Jan. 2014	On going
11- 13	Comment on the draft report.	All	3 Feb. 2014	Planned
11- 14	Present the report to the group for approval.	Mr. Lafrenière	20 March 2014	
11- 15	Submit report for CNRA approval.	WGRNR Chair	2 June 2014	

Licensing structure of regulatory staff and regulatory licensing process				
Phase 2 – Design				
Volume 1 – Instrumentation and Control				
11- 16	Review the draft report posted on the working area.	All	31 Jan. 2014	On going
11- 17	Provide or complete survey response on I&C + high level summary.	All	31 Jan. 2014	On going
11- 18	Present the report to the group for approval.	Mr. Downey	20 March 2014	
Volume 2 – Civil Engineering Works and Structures				
11- 19	Provide or complete survey response on Civil Engineering Works and Structures.	All	3 March 2014	On going
11- 20	Present the content of the report to the group for review.	Mr. Downey	20 March 2014	
Volume 3 – to be determined				
11- 21	Provide next topic of interest.	All	15 Nov. 2013	On going
Phase 3 – Construction Oversight				
11- 22	Provide comments on the draft survey.	All	8 Nov. 2013	On going
11- 23	Present survey to the group for approval.	Mr. Shuaibi	20 March 2014	
Activity on the regulatory control during commissioning				
11- 24	Circulate ideas about this activity.	Mr. Gibson	25 Oct. 2013	To be closed
11- 25	Designate volunteers to lead and take part to the task.	All	2 Jan. 2014	On going

Appendix C: Status of ConEx users (as 8 November 2013)

Country/Organisation	National Regulator (Editor)	National PoC	Member of the review team	Member of the ConEx group
Belgium				
Canada	ROSS, Kevin	LAFRENIERE, Ken WEBSTER, Philip	ROSS, Kevin	LAFRENIERE, Ken
China				
Czech Republic		SIPEK, Jaromir		
Germany		OLDENBURG, Justus		OLDENBURG, Justus (If needed)
Finland	SUKSI, Seija	NEVALAINEN, Janne VIROLAINEN, Tapani	NEVALAINEN, Janne	NEVALAINEN, Janne
France	CHAMPION, Marc HUFFETEAU, Simon FRAYSSE, Aline JOYER, Philippe	HOUDRE, Thomas	JOYER, Philippe	JOYER, Philippe
Hungary		LEHOTA, Mihaly		
India		KOLEY, Jaharlal		
Japan		UI, Atsushi		
Korea	KIM, Walter	SONG, Seon Ho	KIM, Walter or s.o. else	KIM, Walter or s.o. else
The Netherlands	Van der VEEN, Henk	JANSEN, Rob		
Poland	WLOSTOSKI, Mateusz ABRAMOWICZ, Bartlomiej	ZAGRAJEK Marcin	ZAGRAJEK Marcin	-
Russian Federation			LANKIN, Mikhail	LANKIN, Mikhail
Slovak Republic		HALUSKA, Ladislav		
Slovenia	CIMESA, Sinisa	PERSIC, Andreja		
Sweden		WALLIN CALDWELL, Lovisa	WALLIN CALDWELL, Lovisa (tbc)	-
Switzerland		SARDELLA, Rosa		
U.A.E.	ABBATE, Pablo			

Country/Organisation	National Regulator (Editor)	National PoC	Member of the review team	Member of the ConEx group
United Kingdom		GIBSON, Steve REIERSEN, Craig		
U.S.A.	ISSA, Alfred	SHUAIBI, Mohammed		
EC	-	-	PEINADOR VEIRA, Miguel	PEINADOR VEIRA, Miguel
IAEA	-	-		