

**CNSC/Industrial Radiography Working Group Meeting**  
**October 4, 2011**  
**CNSC Western Regional Office**  
**Calgary, Alberta**

**Attendees:**

Andre Regimbald (CNSC)  
Peter Fundarek (CNSC)  
Henry Rabski (CNSC)  
Peter Larkin (CNSC)  
Karen Mayer (CNSC)

Tom Levey (Acuren)  
Joel Kish (Inspectrum)  
Alan Brady (TISI)  
Chris Spencer (Spencer  
Manufacturing)

**Absent:**

R. DeBruyn (Aztec)

**Chair of the Meeting**

Henry Rabski

**Co-Chair**

Alan Brady

**1) Review of Minutes from Previous Meeting**

1. A question was raised as to the status of the approval of the Instadose TLD in Canada by CNSC. No update was provided. Alan Brady said they are being used in the US by TEAM and that Mirion had yet to formally submit an application for certification to the CNSC. This application will not be submitted until Mirion makes a design revision.
2. Chris Spencer indicated that the equipment provider Nordion should be replaced by Best who has purchased the business. Andre suggested "post meeting note".
3. SPEC is missing as an equipment provider. MDS Nordion SA should be corrected/updated to "Best Medical Belgium". Minutes will reflect the change.
4. Future topics for discussion at upcoming meeting NSRD 31(l) (j) and RP 21. Clarification regarding the posting of signs was previously provided by the CNSC and the documentation will be distributed to members.
5. All action items arising from the January 2011 Meeting were closed. Minutes of last meeting were officially adopted with the correction identified above.

**2) Comments from Nisku/Ottawa Annual Meetings**

In May, the CNSC organized two regional meetings. On May 12, 2011 a meeting was held at the CNSC headquarters in Ottawa and a second meeting took place on May 25, 2011 in Nisku, Alberta. Both meetings were well attended by staff from radiography companies across Canada. The feedback received by organizers was shared with the group.

**The following suggestions provided by participants were discussed:**

1. There was a need identified to schedule time for questions/answers towards the end of the day. Have the presenters available for questions.
2. Continue to keep the meeting to a one day meeting format.
3. Licensees could present events/incidents and how they were reported.
4. Perform an analysis of events providing feedback from the regulator whether they were satisfied.
5. Discuss incidents and what was learned – what the corrective actions were.
6. Poster session for some of the reported events.
7. Have tables included in the seating arrangements (Nisku site)
8. Could have a workshop at the annual meeting regarding event analysis.
9. Presentations should be made in both official languages.
10. Put the presentations at the Annual Meeting on the website. US NRC has a re-enactment video we might be able to borrow.

**Action:** Annual Meeting for 2012: Leduc & Ottawa. Specific locations to be determined and Agenda need to be prepared.

### **3) Terms of Reference**

The members took an opportunity to review the "terms of reference" for the group to ensure that they continue to remain relevant. There was consensus that the group is fulfilling the objectives of "collaborating on implementing solutions in order to promote a strong radiation safety culture in the industrial radiography Community while respecting and understanding the interest and expectation of stakeholders". The representatives confirmed that their participation in the working group does not entitle them to any preferential treatment or consideration by the regulator.

**Action:** The group agreed that the "terms of reference" should be issued with a date and a revision number: November 2009, Version-1.

### **4) Committee Membership**

The participants at the meeting acknowledged the resignation of Mr. F. Rodier from the working group. The process with respect to membership that was included in the terms of reference was discussed. Membership for industry was on a three year basis and the end of the first term was approaching. J. Kish indicated that he was prepared to allow his term to expire identifying a second vacancy from the industrial side. Eric Fortier, Regional Coordinator of the Eastern Regional Office has accepted a position in the CNSC Power Reactor Regulation Directorate and needs to be replaced. As well the group discussed the need to have diversification in the membership and regional representation.

**Action:** Industrial Representatives would nominate potential candidates for the two

vacancies generated by the resignations of F. Rodier and J. Kish.

**Action:** Henry to propose wording to change terms of reference to clarify the inclusion of CEDO representation in the Working Group.

### **5) CEDO Project Update**

Henry provided the group with a progress update on the CEDO Certification project that is being spearheaded by CSA. The first meeting of the Scheme Committee was held June 7-9, 2011 in Toronto. The committee was successful in organizing a technical meeting in October 2011 in Calgary where representatives from Industry, the CSA and the CNSC drafted a document that reflected the tasks being performed by CEDOs that would subsequently be used as the basis examination of potential CEDO candidate. Project is going well. The objective is that a technical committee using the job task analysis when completed can prepare a mock exam sometime in the early second quarter of 2012.

### **6) New Licence Application Form**

Peter Fundarek provided a brief overview of the CNSC new application guide which consolidates all licensing guides into one. The rationale for a single document was explained to the group along with the improvements that have been incorporated in the single application. Industry representatives felt they need a presentation on the licensing process, on the new application forms & guides at the next annual radiography meetings.

### **7) Communication**

The participants brainstormed ideas for communication initiatives that would be beneficial in messaging the importance of safety when performing radiography. Some of the ideas that were identified were:

- the production of educational pamphlets for radiographers to give to clients
- posting information on the CNSC website to explain in simple terms radiography and how it benefits industry
- need for the CNSC to issue timely safety bulletins

**Action:** CNSC staff to pursue the addition of material on the website. Two booklets are to be prepared (workers and the public). Michael Grace will be asked to put this together from information provided to him.

### **8) CNSC On-going Performance Review**

The CNSC committed to summarize the annual performance of the Radiography Industry in Canada for 2010 based on the compliance activity and information collected by the Commission. This information would be made available to the industry in a similar format to that which was presented at the 2011 radiography annual meetings. CNSC staff is also conducting a review of the dose data collected by licensees in the context of the

action levels selected by the various licensees and their effectiveness. The Annual Compliance Reports are being reviewed to update the number of current CEDOs identified in the CEDO database.

There was a discussion with respect to the dose data collected and subsequently published by Health Canada. Of particular interest were the high exposures reported and the reasons behind it. Understanding the circumstances that lead to significant doses to workers can be useful to the industry with respect to the prevention of such incidents in the future.

**Action:** K. Mayer to find out the process of adding dose to an individual workers historic dose by a Company and or by the CNSC.

H. Rabski summarized the training process that is involved in the certification of an inspector at the CNSC. There are a number of core courses all inspectors are required to take and a number of inspections that they must participate in before being considered qualified to conduct inspections independently. In addition, the inspector candidates are evaluated by their peers during their training program which can take between 12 and 24 months.

The CNSC is in the process of standardizing the training and expectations of all inspectors and has initiated a project call "conduct of inspections" to achieve this goal. An inspector is certified for a period of 5 years during which they will conduct a variety of inspections and participate in on-going training. The worksheet used during the inspections is available from the CNSC and the gradings assigned to licensees are reviewed from time to time to ensure consistency among inspectors.

## **9) Equipment**

The discussion concerning the equipment used in the radiography industry was initiated by the participants. There was agreement that the suppliers should interact more closely with the industry to identify potential changes to the design of equipment used to reduce the potential dose to workers dose. A suggestion was made to invite equipment suppliers to make a presentation regarding the design criteria employed when manufacturing radiography cameras and what they see as the future in the manufacture of radiography cameras. The ISO Standard 3999 used in the design of cameras used the criteria of limiting the surface dose of the device but does not address the safe performance of the device over time. In addition, a discussion took place with respect to the sources currently used in the cameras and whether they could be regulated in a way to reduce dose to workers

**Action:** Sylvain Faille to make a presentation at the next meeting on the CNSC certification process for radiography cameras.

## **10) Other Business**

- CNSC to perform a review of the activity limits of sources currently licensed in Canada.
- Literature survey of best practices to be initiated by CNSC staff
- Invite an equipment supplier to the next working group meeting.

Next Meeting of Radiography Working Group is proposed to take place in February 2012.

The meeting ended at 4:00pm.

## ACTION LIST

The following are the actions that are arising from the October 2011 Working Group Meeting held in Calgary.

<b>Radiography Working Group - ACTION LIST</b>			
<b>RWG Item #</b>	<b>Description</b>	<b>Assigned Person(s)</b>	<b>Status or Due Date</b>
	<b>Communications</b>		
<b>11(WGM) 1.0</b>	<b>Planning for Annual Meetings 2012 in Leduc and Ottawa.</b>	<b>H. Rabski</b>	<b>February 2012</b>
<b>11(WGM) 2.0</b>	<b>Verification that Terms of Reference are tracked</b> <b>Propose wording change to capture CEDO participation</b>	<b>H. Rabski</b>	<b>Done</b>
<b>11(WGM) 3.0</b>	<b>Nomination of two new industry representatives to the Working Group</b>	<b>A. Brady</b>	<b>Done</b>
<b>11(WGM) 4.0</b>	<b>Add information on radiography to CNSC Website</b> <b>Prepare booklets for workers and one for the public on radiography</b>	<b>H. Rabski</b> <b>H. Rabski</b>	<b>Open</b>
<b>11(WGM) 5.0</b>	<b>Invite a radiography equipment manufacturing company to the next meeting.</b>	<b>A. Brady/H. Rabski</b>	<b>Open</b>

<b>Radiography Working Group - ACTION LIST</b>			
<b>RWG Item #</b>	<b>Description</b>	<b>Assigned Person(s)</b>	<b>Status or Due Date</b>
<b>11(WGM)6.0</b>	<b>Compliance</b>		
	<b>Explanation as to how doses to workers can be adjusted at the National Dose Registry.</b>	<b>K. Mayer</b>	<b>Open</b>
<b>11(WGM) 7.0</b>	<b>CNSC Certification Process Presentation</b>	<b>S. Faille</b>	<b>Next Meeting</b>
<b>11(WGM) 8.0</b>	<b>Review of activity level of sources used in performing Radiography and conduct a literature survey of best practices.</b>	<b>H. Rabski</b>	<b>Open</b>