

**CNSC / Industrial Radiography Working Group Meeting
(Fall Meeting on October 28, 2019)
CNSC Southern Ontario Regional Office (SORO)
5800 Hurontario Street, Suite 10-075
Mississauga, ON**

Attendees:

A. Brady	TISI	
T. Levey	Acuren	
C. Auzenne	QSA Global	
E. Pouliot	Mistras Services Inc.	
B. Bizzarri	NDT Cloud	teleconference
P. MacNeil	A-Tech	absent
K. Mayer	CNSC	
L. Simoneau	CNSC	
M. Laflamme	CNSC	
P. Larkin	CNSC	videoconference
S. Faille	CNSC	videoconference
C. Moses	CNSC	videoconference
A. Bouchard	CNSC	absent
J. Sigetich	CNSC	absent

Chair of the Meeting: K. Mayer
Co-Chair: A. Brady

Welcome/ Logistics:

K. Mayer opened the meeting at 10:30 am (EST) 8:30 am (MST). She welcomed and introduced all members and announced that this will be her last meeting as Chair. She announced that M. Laflamme will be the new Chair and that she will continue to be involved as a member of the working group. Members of the working group mentioned that K. Mayer has been the Chair for over 10 years and did an excellent job and that you can really see how much the culture of the industry has improved since the industrial radiography-working group (IRWG) was established.

S. Faille added that, since it has been over 10 years, we wanted to change things up and that this would help K. Mayer take on new work such as the review and amendment of the *Nuclear Substances and Radiation Devices Regulations*.

K. Mayer informed the group that P. MacNeil sends her regrets, as she could not attend the meeting due to a family-related emergency and that A. Bouchard also sends his regrets as he was away on inspections. J. Sigetich is still on leave and someone from the Personnel Certification Division (PCD) will not be attending today. It was noted that there is a Scheme Committee meeting on October 29-30, 2019 for reviewing proposed changes to the CSA Group document

CSA PCP-09, *Certified Exposure Device Operator Personnel Certification Guide* and that PCD will be available at this meeting if anyone has any questions for them. C. Moses will be attending the meeting by videoconference in the afternoon to provide CNSC regulatory updates. M. Laflamme will be taking the minutes for this meeting.

Everyone agreed to adopt the proposed agenda.

Review of Previous Action Items

The list of the action items from previous meetings were emailed out to all members prior to the meeting. The group reviewed the action items and provided the following updates:

15WGM1.1: Bring a recorder to future meetings.

- Status unchanged; ongoing.

15WGM1.2: Ensure IRWG members are invited to Commission meeting for Regulatory Oversight Report presentation.

- K. Mayer confirmed with the working group that the Commission Meeting for the *Regulatory Oversight Report on the Use of Nuclear Substances in Canada: 2018* will be held on November 7, 2019 and it can be watched online on the CNSC website.
- Everyone is encouraged to watch it.
- Action item remains ongoing.

15WGM2.6: Provide further updates on QSA equipment.

- Update provided by C. Auzenne in the afternoon (see QSA Equipment Update section of the minutes).
- Action item remains ongoing.

16WGM2.2: Provide an assessment of whether CIRSA can review large trainers programs for pre-qualification at next meeting.

- A. Brady could not get any more training providers' programs to review. The curriculum from the training providers that have been reviewed to date were all written to follow CSA PCP-09.
- T. Levey added that the training programs from CWB Group and WorldSpec follow CSA PCP-09.
- It was noted that it would be beneficial for CIRSA to review the training providers' programs once the revision of CSA PCP-09 is in place so that it can be ensured that training providers are covering any changes or additions from the revision to CSA PCP-09.
- Members agreed that this action item is now closed.

17WGM2.4: Client subgroup members to look into H&S councils and conferences, magazines that we could potentially publish an article in or bulletin boards and provide updates on progress at meeting.

- Still work-in-progress, there has not been any time for CNSC staff or Industry to address to date; keep action item as ongoing.
- A. Brady added that there are still issues with barrier breaches and that we only know of the ones that are reported. The purpose of this item is to educate clients and their workers to improve safety culture.
- T. Levey indicated that he is noticing improvements and starting to see some companies implementing a radiation safety culture. However, it is necessary to continue to educate.
- K. Mayer confirmed that she has found a contact at IEC Partnership (Industrial Educational Cooperative) and will reach out to them.

UPDATE TO ACTION ITEM: Members to get clients to attend the Annual Industrial Radiography May Meetings. K. Mayer to reach out to her contact at IEC Partnership.

18WGM2.1: Provide questions for trainers to Karen for early May so that we can set up a survey to send out by end of May 2019.

- K. Mayer mentioned only received some questions from one member. The Scheme Committee meetings are held this week and some vocational training providers are attending so this item can be closed.
- It was noted that the EDO written examination has a high failure rate. Scheme Committee subgroups to look at why this is the case (e.g., training issue or examination issue).
- Members agreed that this item is now closed.

18WGM2.2: Update ToRs accordingly to add new paragraph.

- This item was confirmed closed.

18WGM2.3: Look at collecting data and info with a technical trainee on who we should reach out to.

- No updates; action still ongoing. The purpose was to get a CNSC technical trainee or student to look into identifying any welding or non-destructive testing conferences that would be applicable for someone from the CNSC or the IRWG to do some radiation safety outreach.
- Budget constraints may affect when this can be achieved.
- E. Pouliot added that it would be worth looking into conferences from the oil & gas industry such as the one in Banff, Alberta to be able to reach many big clients.

18WGM2.4: *Send a list of any potential contacts (clients) you may have to K. Mayer.*

- List of potential clients have not yet been received. Action item still ongoing.

UPDATE TO ACTION ITEM: Members to send K. Mayer list of clients by December 6 2019. E. Pouliot to send K. Mayer contact for Valéro.

18WGM2.5: *Invite E. Pouliot (Mistras – Eastern) to next IRWG meeting.*

- This item was confirmed closed.

18WGM2.6: *Invite someone from Safeguards to next IRWG meeting to give a presentation on expectations and requirements.*

- This item was confirmed closed.

19WGM1.1: *Share proposal to better communicate with CEDOs (possible article in DNSR Newsletter) with PCD.*

- S. Faille confirmed that the DNSR Newsletter is on hold for now. CNSC staff are looking at other ways to communicate with licensees and CEDOs and looking at the best way to generate interest.
- T. Levey added that the DNSR Newsletter works well with licensees but does not reach the CEDO level.
- K. Mayer indicated that PCD's focus has been working on the draft revision to CSA PCP-09 and that they are looking at ways to better communicate with CEDOs such as developing a FAQ on the CNSC EDO web page.
- Members mentioned that it would be beneficial if the CNSC could send reminders to CEDOs when renewals are due. CNSC staff mentioned that this is currently being looked at by PCD.
- Action item remains ongoing.

19WGM1.2: *Take comments back to NSRDLD/OID Working Group and Licence Condition Review Team to discuss industry concerns and determine intent of LC2300. Update IRWG on progress;*
and

19WGM1.3: *All members to send any concerns for improving the process at 90-day site locations to K. Mayer.*

- S. Faille and K. Mayer provided an update on LC2300. Internal discussions were held on this condition and revised wording is being proposed. CNSC staff are also working on developing some guidance on the intent of the licence condition to ensure that it is clear as to why this condition appears on licences and that the requirements are clear to all.

- The proposed wording as well as the guidance will be circulated to the IRWG prior to it being sent out to all licensees for consultation. All comments will be taken into consideration.
- This licence condition also impacts other use-types such as portable gauges and well logging.

19WGM1.4: *Pass along information to J. Sigetich (PCD) about possible database (value added) and set up an internal discussion.*

UPDATE TO ACTION ITEM: M. Laflamme to reach out to PCD for an update on database.

19WGM1.5: *Check with our certification people and contact QSA to see if this is a real concern or a one off (related to Equipment Failure Discussion).*

- S. Faille confirmed that the equipment failures were discussed with our certification engineers. They followed up with QSA Global on this issue and did not find anything other than a maintenance issue.
- C. Auzenne added that proper maintenance and lubrication is very important. Usually when you see equipment failure, it is linked to a maintenance issue.
- QSA Global are looking at a hybrid cable that would still have a crank but would not be as susceptible to corrosion.
- Members highlighted that having good maintenance, storage and procedures is important.
- Members agreed that this item is now closed.

19WGM1.6: *Check with our certification people and contact QSA to see if this is a real concern or a one off (related to Equipment Failure Discussion).*

- This item was confirmed closed.

19WGM1.7: *Contact IRSS and Airtas for presentations for annual meeting.*

- This item was confirmed closed.

19WGM1.8: *Put together proposed agenda and send out invitation for meeting (work with T. Madsen and T. Doucette (CNSC) for invitation and communications for meeting).*

- This item is closed.

Spring 2019 Meeting(s) De-brief

K. Mayer collected the feedback from the May 2019 annual industrial radiography meetings held in Ottawa and Nisku and shared the feedback with the group. More people filled out the feedback form this year. Overall, the meetings were very well received and participants found

the meetings to be well organized. Overall, at the Ottawa meeting, the presentation by Airtas, the presentation on challenges faced with rope access and the presentation on changes to the EDO practical examination were well received. However, the presentation from Airtas at the Nisku meeting was not as well received, first of all, it was a different presentation from the Ottawa version that focused too much on sales. The RSO Succession presentation delivered by Stuart Hunt & Associates Ltd. was very well received and most would like more on this topic. The use of WebEx was very well received at both meetings and participants were impressed that presentations can be delivered remotely.

Some suggestions included the following:

- Use a better microphone next time for the Ottawa meeting. The meeting was held in room 11-110 of 410 Laurier Avenue West, which members agreed to not use this room next time.
- Obtain more microphones.
- Solicit questions in advance or have a mechanism in place that would help everyone be able to ask their questions (perhaps use SLIDO).
- Invite more EDO trainees.

In addition, the following is a list of suggestions for future topics from those who attended the meetings. These are summarized in the following table:

Suggestions from May 9, 2019 Ottawa Meeting for discussions/presentations at future meetings	Suggestions from May 23, 2019 Ottawa Meeting for discussions/presentations at future meetings
<ul style="list-style-type: none"> • Misconnect test & 880 maintenance presentation by QSA Global • Preoperational checks • Two-man crews • Enforcement actions seem to link to improper trainee supervision; may be worth to have a presentation on trainee supervision • Demo for the new Sealed Source Tracking System (SSTS) • EDO public database • Transport Canada • Overall summary on industry performance and most common-non-compliances 	<ul style="list-style-type: none"> • Sharing operational experience on source retrievals • Equipment demos • Expand on RSO Succession Presentation from Stuart Hunt (it was well received) • CEDO refresher or some kind of training • Security • Transport and have someone from Transport Canada attend • New <i>Radiation Protection Regulations</i> and if there are new forms or things licensee are required to do

<ul style="list-style-type: none"> • Exchange international events and topics • Sharing operational experience on source retrievals (couldn't get one in Ottawa but Nisku had 3) 	<ul style="list-style-type: none"> • Pass/Fail rate of EDO written examination • More case studies • Human factors • Safety culture • High level source retrieval presentation that could include retrieval kit requirements • The presentation from the Edmonton police on theft of dark room trucks • Demo from QSA Global • Presentation from a vocational training provider
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Members suggested that it may be worth having a presentation on a source retrieval that did not go well and the purpose of the presentation is to share lessons learned and help with prevention. A good example would be where the remote controls heat up and melt due to being next to hot pipes.

ACTION ITEM: C. Auzenne to get one of his trainers to provide a high-level presentation on source retrieval and/or source retrieval kits and a presentation on maintenance.

CNSC Regulatory Updates

C. Moses stated that the annual Regulatory Oversight Report on the Use of Nuclear Substances in 2018 will be presented to the Commission on Thursday morning (November 7, 2019) and you are all encouraged to watch or else review on the website after. We are taking a different approach this year by presenting a couple of case studies related to the performance history of the portable gauge and nuclear medicine sectors. Commission meeting material is available on the public domain.

C. Moses provided the following updates:

- Dr. Stephen McKinnon is a new Commission member and was appointed for a four-year term on June 19, 2019. He is a professor at Queens in geology sciences and engineering.
- The consultation of the proposed amendments to the *Radiation Protection Regulations* is now complete. There does not appear to be any major impact on the Industrial Radiography Industry. One interesting change as noted previously is that the dose limits to the eye was reduced to 50 mSv.

- The *Nuclear Substances and Radiation Devices Regulations* are currently being reviewed. We are looking at formalizing the requirements for the certification of EDOs to make it clear that only EDO certification cards with expiry dates that have not expired are valid. In addition, we are looking at updating other requirements to improve clarity. These changes will go through public consultation and you will be able to comment on them. The timing for public consultation is difficult to predict at this time but the public consultation phase will likely be within the next two years.
- The *Nuclear Non-Proliferation Import and Export Controls Regulations* are being updated based on comments received from the Nuclear Suppliers Group (NSG). The CNSC is also looking at updating the *Nuclear Security Regulations* as well as the *General Nuclear Safety and Control Regulations* to include a requirement for safeguards.
- We are working on developing *REGDOC-1.6.2, Developing and Implementing an Effective Radiation Protection Program for Users of Nuclear Substances and Radiation Devices*, which is a companion to the Licence Application Guide (LAG) *REGDOC-1.6.1*. This REGDOC provides guidelines for implementing designs for radiation protection programs. It is at the consultation stage and we would appreciate feedback.
- The RSO evaluation report was recently published on our website. An evaluation is an evidence-based technique used to gather information on effectiveness. The evaluation was used to look at what RSOs need to in order to perform their functions more effectively. The evaluation focused on RSOs from the nuclear medicine sector. Two points from the evaluation: one is a need to clarify the RSO role (which is being addressed in *REGDOC-1.6.2*) and the second is to target outreach to those who need it instead of those who already participate.
- The CNSC hosted an Integrated Regulatory Review Service (IRRS) mission from September 3 to 13, 2019. The mission is coordinated by the IAEA and brings in experts in nuclear regulation from across the world to conduct a peer review to compare our regulatory practices with international standards. We received some good feedback from the IRRS mission. The mission recognized the good processes we have and that they are consistent. The mission also identified a couple of opportunities to update our regulatory framework with respect to transport and packaging and provided some suggestions such as the use of a notification or registration system for low risk licence applications.
- The CNSC launched a project to review our program and our internal practices to see where we can improve for efficiency and effectiveness. This project is at an early phase but outcomes may include different approaches to compliance oversight. The idea is to

continuously improve consistency amongst our licensing and compliance activities and be more innovative.

- The Risk Informed Regulatory Program (RIRP) is currently being updated. Every 5 years the risk-ranking of the different use types is reviewed. We are looking at integrating factors such as licensee and sector performance into our compliance oversight program. Industrial radiography licensees continue to be high performers so the focus is being shifted to medium risk licensees such as portable gauge and nuclear medicine.

ACTION ITEM: Members to let K. Mayer know by November 29, 2019 (or earlier) of any areas that have shown challenges that could be addressed with the amendment to the *Nuclear Substances and Radiation Devices Regulations*.

QSA Equipment Update

C. Auzenne provided the following update on QSA equipment:

- QSA Global is in the process of developing a new handle system for the control assembly. The only change is in the housing material of the handle system to a different material that won't be plastic since plastic rescinds and cracks over time.
- The new handle system is a lot smoother and will have reduced friction. It is roughly the same in terms of travel distance and their engineers indicated that the new material will hold up the same or better than plastic in cold weather conditions. The new system has not yet been tested in the cold environment.
- They are hoping to have it completed by the end of the year and will need to submit the required documentation to the CNSC for approval.
- There will be ongoing trials between now and the end of the year in Canada. QSA has been field-testing them in the United States and other parts of the world.

T. Levey asked if it would be possible to field test them and how to go about getting this approved. S. Faille confirmed that it is possible under an 817 (development and testing) licence and that the new equipment will need to be submitted for certification as well. They will need confirmation on the manufacturing requirements from QSA Global. S. Faille added that when it is ready, it would need to go through the certification process due to the regulatory requirement of certifying all associated equipment and not just the exposure device itself.

C. Auzenne provided an update regarding the issue of the presence of activated tantalum in Se-75 sources.

- On July 10, 2019, a customer notified QSA Global that they detected a higher than expected surface dose rates on their Model 989 SCAR device.
- The device was returned to their Burlington, MA facility and was evaluated.
- A gamma spectroscopy was performed and the resulting spectrum confirmed the presence of an activated tantalum impurity.
- QSA Global's immediate actions involved screening and profiling all devices with relatively small shielding that are loaded with Se-75 to determine whether there is excessive amounts of activated tantalum and, if so, the Se-75 source is removed and replaced.
- This involves both QSA's Model 989 and Model 1075 devices. There are only about 50 of these devices in the world and about 10-15 in Canada. The 1075 Scar Pro has enough shielding for this not to be an issue, however, the 989 does not.
- The investigation is ongoing but was determined that the presence of the impurity is due to the low flux in the reactors they use in Europe. This all came about due to an outage at Oakridge National Labs; the reactor goes back on line in November and they will do a comparison once they are able to obtain some material out of the reactor.
- The sources were sold before Oakridge went down.
- The impurity does not have any impact on the film or the image quality.
- It will likely be late December before product is available from Oakridge.
- The demand for this device comes from the nuclear power industry and QSA is unable to supply the demand at this time.

CNSC staff noted that they are aware of this issue and our engineers are looking into it with QSA Global.

P. Larkin asked if there is any effect on the special forms certificates and S. Faille added that the Transport Licensing and Strategic Support Division (TLSSD) is looking into this.

E. Pouliot asked QSA if they have considered the harness for the Delta 880 devices from Airtas. C. Auzenne responded that QSA Global Inc. is considering it but really need feedback on it from Industry.

T. Levey added that he finds there to be too many catch points on it, which makes it not great in their environment.

E. Pouliot finds it too expensive for what it is. It may be safer than using slings, but still feels that here is a potential in dropping cameras with older jackets.

Overall, industry feels that it may eliminate some of the knot tying; but feel that there must be other competitors out there, which are cheaper; industry feels they must do their homework.

812 QSA Global 880 Manufacturer Maintenance Requirements Guidance Document

CNSC staff have been working on developing a guidance document on maintenance requirements for exposure devices (e-Doc # 5737691). This document is meant for internal use at the CNSC for inspectors, it may be used as a basis for developing a guidance document for the industry in the future. The document includes the maintenance requirements for daily, quarterly and annual maintenance and the information was taken from the *QSA Global Sentinel 880 Delta, Elite, Atlas and Omega Operating and Maintenance Manual (MAN-027September 2015)*. The guidance document was sent to the working group prior to the meeting for discussion and review.

Working group members had questions regarding the purpose of this document and mentioned that they already have the manual from the manufacturer. L. Simoneau added that we have three regional offices and we are seeing differences in what is being looked at during inspections. This document is meant to provide guidance to our inspectors and licensing staff so that they can be consistent in what to look for with respect to daily, quarterly and annual maintenance. Licensee's radiation safety manuals are different and provide different levels of information so this guidance document would help us to improve consistency. Staff are asking the working group to review the document and provide comments.

ACTION ITEM: Members to review the document and provide comments to K. Mayer. As a follow up, K. Mayer will incorporate the comments and follow up with C. Auzenne.

Update on IAEA Technical Meeting on the Experiences in the Management Depleted Uranium Shielding in Radioactive Source Containers – Update from T. Levey

T. Levey

- The purpose of the meeting was to review the management of depleted uranium around the world and come up with guidance for those who would dispose it.
- The meeting was five days and each country did a presentation on types of depleted uranium devices and how they are tracked and disposed.
- T. Levey presented for Canada and spoke about exposure devices and the number of devices in Canada.
- During the five-day meeting, members went through the guide and had discussions around objective of the guide, scope, characteristics, radiological hazards, safe management, inventory management, safe handling, disposal and more.
- It was noted that most countries return devices containing depleted uranium to the manufacturer.
- T. Levey was asked present on security as Canada has the sealed source tracking system (SSTS).
- T. Levey took the following notes for what Canada should consider:

- improve awareness around depleted uranium.
- how do you dispose of it?
- there are licensees out there with old devices that may not be well tracked. How do you track it?
- IAEA system for tracking RAIS

ACTION ITEM: T. Levey to send his notes from the technical meeting to K. Mayer to share with the International Safeguards Division (ISD) at the CNSC and DNSR Management.

Other Business / Discussion

Dosimetry Service Providers:

There were issues raised with respect to dosimetry service providers. CNSC staff are looking into it.

Exposure Device Maintenance Course:

B. Bizzarri mentioned that SAIT is offering a maintenance course for exposure devices and was wondering if QSA Global was aware of it. C. Auzenne did not know about this as they only endorse their own courses. CNSC staff added that they have not heard anything about this course. It is important to check their website to ensure that it does not say anything about endorsement by either QSA or the CNSC.

EDO Certification only Applies to Canada:

A. Brady wanted to reiterate that EDO certifications are not acceptable in the United States. If you are sending an EDO to the United States, ensure that they meet their requirements. In addition, same thing goes for the other way around. Only those certified in Canada can operate an exposure device in Canada. There is no reciprocity.

Working Group Membership:

A. Brady asked if we have everyone we need in the working group. He mentioned that Dimitrios Kotsakis from Trenergy Inc. is interested in joining.

It was noted that the working group is currently full and industry members are on a 3-year term. It was also noted that it might be useful to have someone from a smaller company's perspective to the working group. This is to be discussed further within the CNSC.

Next Meeting and Adjournment

Members discussed logistics for the next Industrial Radiography Working Group meeting. It was determined that the next meeting needs to be before March 2020 to be able to plan for the Annual Industrial Radiography Meetings in May 2020.

Members agreed that the February timeframe would be ideal and that the next meeting would be held either in Ottawa or by videoconference. Members indicated that a videoconference meeting focused on planning of the May meetings would be ideal as no one is particularly interested in travelling during the winter months.

K. Mayer adjourned the meeting at 3:15 pm (EST) / 1: 15 pm (MST).

Radiography Working Group - ACTION LIST			
RWG Item #	Description	Assigned Person(s)	Status or Due Date
15WGM1.1	Bring a recorder to future meetings.	K. Mayer	Ongoing
15WGM2.2	Ensure IRWG members are invited to Commission meeting for industrial report presentation	K. Mayer/ C. Moses	Ongoing
15WGM2.6	Provide further updates on QSA equipment	C. Auzenne	Ongoing
16WGM2.2	Provide an assessment of whether CIRSA can review large trainers programs for pre-qualification at next meeting.	A. Brady	Closed
17WGM2.4	Client subgroup members (K. Mayer, L. Simoneau, P. MacNeil and A. Brady) to look into H&S councils and conferences, magazines that we could potentially publish an article in or bulletin boards and provide updates on progress at meeting.	K. Mayer and sub-group	Ongoing
	<u>Update (Fall 2019 Meeting):</u> Members to get clients to attend the Annual Industrial Radiography May Meetings. K. Mayer to reach out to her contact at IEC Partnership.	All	May 2020
18WGM2.1	Provide questions for trainers to Karen for early May so that we can set up a survey to send out by end of May 2019.	All	Closed
18WGM2.3	Look at collecting data and info with a technical trainee on who we should reach out to.	A Bouchard	Ongoing
18WGM2.4	Send a list of any potential contacts (clients) you may have to K. Mayer	All	December 2019
	<u>Update (Fall 2019 Meeting):</u> Members to send K. Mayer list of clients by December 6, 2019. E. Pouliot to send K. Mayer contact for Valéro.		

19WGM1.1	Share proposal to better communicate with CEDOs (possible article in DNSR Newsletter) with PCD	K. Mayer	Ongoing
19WGM1.2	Take comments back to NSRDL/OID Working Group and Licence Condition Review Team to discuss industry concerns and determine intent of LC2300. Update IRWG on progress	K. Mayer	February 2020
19WGM1.3	All members to send any concerns for improving the process at 90-day site locations to K. Mayer.	All	November 2019
19WGM1.4	Pass along information to J. Sigetich (PCD) about possible database (value added) and set up an internal discussion. <u>Update (Fall 2019 Meeting):</u> M. Laflamme to reach out to PCD for an update on database	K. Mayer M. Laflamme	February 2020 February 2020
19WGM1.5	Check with our certification people and contact QSA to see if this is a real concern or a one off (related to Equipment Failure Discussion)	S. Faille	Closed
19WGM1.6	Work as a team (A. Brady, T. Levey and E. Pouliot) to develop a presentation (Industry) on the safety and challenges with rope access in IR. E. Pouliot will deliver the presentation at the annual meetings.	E. Pouliot A. Brady T. Levey	Closed
19WGM1.7	Contact IRSS and Airitas for presentations for annual meeting	A. Brady	Closed
19WGM1.8	Put together proposed agenda and send out invitation for meeting (work with T. Madsen and T. Doucette (CNCS) for invitation and communications for meeting)	K. Mayer	Closed

19WGM2.1	Have someone from QSA Global to provide a high-level presentation on source retrieval and/or source retrieval kits and/or a presentation on maintenance.	C. Auzenne	February 2020
19WGM2.2	Members to let K. Mayer know by November 29, 2019 (or earlier) of any areas that have shown challenges that could be addressed with the amendment to the <i>Nuclear Substances and Radiation Devices Regulations</i> .	All	November 2019
19WGM2.3	Members to review the guidance document on maintenance requirements for exposure devices (e- Doc # 5737691) and provide comments to K. Mayer. K. Mayer to incorporate received comments and follow up with C. Auzenne.	All	December 2019
19WGM2.4	T. Levey to send his notes from the technical meeting to K. Mayer to share with the International Safeguards Division (ISD) at the CNSC and DNSR Management.	T. Levey	December 2019