

**Radiochemistry Expert Committee (REC)  
Meeting Summary**

**October 25, 2017**

1. Roll Call and Minutes:

Bob Shannon, Chair, called the meeting to order at 1:06 pm Eastern on September 27, 2017 by teleconference. Attendance is recorded in Attachment A – there were 8 members present. Associates: Jim Chambers, Velinda Herbert, Terry Romanko, Bill Ray and Carolyn Wong.

Meeting minutes are distributed by email for comment/revision for a week and then posted on the TNI website.

2. Training for ABs in Albuquerque on January 25<sup>th</sup> AM

Bob provided everyone with an update on training progress. Bob has been working on training with Larry and Carolyn. Larry has test data and Carolyn has ideas. He is now starting to put the training together. They will be using Radium 228 for the example. He has lots of bits of training he is working on and then he'll look at how to tie everything into Module 6.

He hopes to have more to share at the next meeting. He'll ask for volunteers to look at the information and provide feedback.

Bob asked who is planning to be in Albuquerque in January – Yoon, Bill Ray and Carolyn will be there. Bob would like to have more people involved in the training. There will be small groups that could use an expert.

3. Status on TNI PT Acceptance Criteria SOP

Bob checked in with Keith and the status on this work. He has received an email with some data from Carl.

Ilona will add Keith to the first meeting of the Chemistry FoPT Subcommittee on Tuesday, 10/31/17 at noon Eastern.

Vas wanted to confirm that historical data will be used to prepare new FoPT limits. Ilona confirmed that this is being looked at.

Ilona recommend that Bob and Keith send an email to Carl requesting the additional information they need to start looking at alternatives on how to appropriately set Radiochemistry limits.

#### 4. Committee Membership

In January, people will be rotating off of the committee. – Dave, Keith and Larry. Members can become associate members when they rotate off. Bob has been making contact with potential new members.

Terry Romanko would be a good candidate for the committee and he is willing to serve. He has been an associate and would make a good replacement for Larry.

Velinda Herbert is interested in joining the committee and has turned in an application. She has been involved with TNI for 7-8 years. She could replace Keith and represent EPA.

Bob has also talked to Brian Miller. It would help to have someone involved in PT given the interest in PTs moving forward.

The committee can add more than 3 people if good candidates arise.

Next month Bob will put some names forward for review.

#### 5. Standard Revision

Bob reminded everyone to keep sending items for consideration for the revision of the Standard. The committee has not started this effort yet, but Bob has been keeping track of suggestions being made for the next update (Attachment D).

#### 6. New Business

None.

#### 7. Action Items

A summary of action items can be found in Attachment B.

## 8. Next Meeting and Close

The next meeting is scheduled for November 15, 2017 at 1pm Eastern. This is not the usual date, but works better for holiday schedules.

A summary of action items and backburner/reminder items can be found in Attachment B and C.

The meeting was adjourned at 1:32pm Eastern.

**Attachment A  
Participants  
Radiochemistry Expert Committee**

Members	Affiliation		Contact Information	
			Phone	Email
Bob Shannon (Chair) (2019) <b>Present</b>	QRS, LLC Grand Marais, MN	Other	218-387-1100	<a href="mailto:BobShannon@boreal.org">BobShannon@boreal.org</a>
Tom Semkow (Vice Chair) (2019) <b>Present</b>	Wadsworth Center, NY State DOH Albany, NY	AB	518-474-6071	<a href="mailto:thomas.semkow@health.ny.gov">thomas.semkow@health.ny.gov</a>
Sreenivas (Vas) Komanduri (2019) <b>Present</b>	State of NJ Department of Environmental Protection Trenton, NJ	AB	609-984-0855	<a href="mailto:Sreenivas.Komanduri@dep.state.nj.us">Sreenivas.Komanduri@dep.state.nj.us</a>
Marty Johnson (2019) <b>Absent</b>	US Army Aviation and Missile Command Nuclear Counting Redstone Arsenal, AL	Lab	865-712-0275	<a href="mailto:Mjohnson@tSC-tn.com">Mjohnson@tSC-tn.com</a>
Dave Fauth (2018) <b>Present</b>	Consultant Aiken, SC	Other	803-649-5268	<a href="mailto:dj1fauth@bellsouth.net">dj1fauth@bellsouth.net</a>
Keith McCroan (2018) <b>Present</b>	US EPA ORIA NAREL, Montgomery AL	Lab	334-270-3418	<a href="mailto:mccroan.keith@epa.gov">mccroan.keith@epa.gov</a>
Larry Penfold (2018) <b>Absent</b>	Test America Laboratories, Inc; Arvada, CO	Lab	303-736-0119	<a href="mailto:larry.penfold@testamericainc.com">larry.penfold@testamericainc.com</a>
Ron Houck (2018*) <b>Present</b>	PA DEP/Bureau of Laboratories	AB	717-346-8210	<a href="mailto:rhouck@pa.gov">rhouck@pa.gov</a>
Yoon Cha (2020) <b>Present</b>	Eurofins Eaton Analytical	Lab	213-703-5800	<a href="mailto:YoonCha@eurofinsUS.com">YoonCha@eurofinsUS.com</a>
Candy Friday (2020) <b>Present</b>	CdFriday Environmental, Inc.	Lab	713-822-1951	<a href="mailto:candy@fridayllc.com">candy@fridayllc.com</a>
Ilona Taunton (Program Administrator) <b>Present</b>	The NELAC Institute	n/a	828-712-9242	<a href="mailto:Ilona.taunton@nelac-institute.org">Ilona.taunton@nelac-institute.org</a>

## Attachment B

### Action Items – REC

	Action Item	Who	Target Completion	Completed
84				

**Attachment C – Back Burner / Reminders**

	<b>Item</b>	<b>Meeting Reference</b>	<b>Comments</b>
5	Form subcommittee of experts in MS and other atom counting techniques to see that these techniques are adequately addressed in the radiochemistry module.	9/24/14	
6	From Action Item # 75: Prepare copy of Standard annotated with summary document language.		This is a project Carolyn was working on, but the committee decided it may duplicate the Small Lab Handbook. This project has been put on Hold.

## Attachment D. Summary of Recommended Changes to the 2016 Standard

### 1. Tom

- a. Section 1.7.1.5.c.ii)
  - i. Physical impossibility of measurement of Lucas Cell background per day of use after it has been filled with radon.
- b. Sections 1.6.2.2.b) and 1.7.2.3.e.iii)
  - i. Three gamma energy ranges for DOC and two ranges for LCS are specified. Since LCSs are often used for DOC, it is inconsistent.
- c. Section 1.7.1.4.a.iii)
  - i. No guidance is provided what to do if the instrument performance check source is compromised.
- d. Sections 1.7.3.5.b) and 1.7.3.5.f)
  - i. Contradiction and a lack of logic in saying that “shall be reported directly as obtained” and then that specific requirements can take precedence over “shall”. Then it should not be “shall”.

### 2. Vas

- a. Consider whether existing issues would benefit from being addressed as SIRs

### 3. Keith

- a. 1.7.2.3(d)
  - i. It makes a lot more sense to talk about activities x times the MDC than x times the critical level. The critical level isn't really a well-defined measurable quantity. As we ordinarily define and use it, it's just a statistic that can vary with each measurement. The MDC is the a priori concept, whose value we can estimate.  
When we calculate the a priori MDC, we actually do calculate an a priori critical value, too, but that value is never recorded or used for anything else.