Naval Postgraduate School
RSC Third Quarter Meeting Minutes

25 Sept 2013

Attendance:

Jeff Paduan      Dean of Research
Ryan Greve      Radiation Safety Officer
Andres Larraza  Physics Department Chairman
Nancy Haegel    Physics Professor
Luke Brewer     MAE Associate Professor
Todd Weatherford  Associate Professor
Andrew Parker   Research Associate
Ron James       Assistant Radiation Safety Officer
Candace Van Assche  Research Safety Admin

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Candace Van Assche      Research Safety Admin

1. Meeting was called to order at 1003.

2. ACCELERATORS

   a. We received the 100% design approval from RASO for the modification of B-230. This modification is required prior to accelerator operations >1 MeV.

   b. The NPS President has endorsed the Flash X-Ray SEOP and it has been sent to RASO for approval.

   c. Our contract with L-3 for Flash X-Ray maintenance has expired; therefore, we do not have an accelerator expert anymore. We will need an expert to sign off on our surveys. The initial contract with L-3 took ~9 months to acquire. We will need to begin the contracting process soon to avoid a lengthy delay to operations.

3. SEOP REVIEWAL AND ROUTING

   a. We are required to conduct annual reviews of all of our SEOPs.

   b. The routing system for all NPS instruction endorsement has changed. They must now get approval from six offices (e.g. HRO, IG, and JAG) before receiving command endorsement. This adds ~6 extra weeks to receive approval.

   c. We are trying to hold off on conducting the SEOP review until the upcoming release of RAD-10 Rev 2. This would prevent us from having to conduct an SEOP review twice in one year.

4. TYPE B, BROAD SCOPE NRMP

   a. We have received our updated broad scope license, NPS NRMP 04-62271-D1NP amendment 2. Our license will be valid until 2015.
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b. RASO has awarded the Historical Radiological Site Assessment contract to Aleut World Solutions. We were initially expecting a forward team to arrive April but they never came. We now anticipate an initial visit sometime late 2013.

c. We anticipate a RASO inspection sometime Fall 2013.

5. ANALYTICAL MEASUREMENT INSTRUMENTS (AMI)

a. Our AMI inventory now includes: 5 Electron Microscopes, 2 XRDs, and the MK1.

b. The initial open beam operation of the iXRD is now complete. More details below in Para 11.

c. We have a change to the requirement that the RSO or ARSO must be within a 2 hour commute time for electron microscope operations. They now need to be notified within 2 hours of an incident.

6. TRAINING

a. The RSO and ARSO are current on all training requirements including: RSO annual conference, RASO RSO school, and the Department of Transportation Hazardous Material Shipper Certification.

b. We currently have 34 Non-Radiation Workers trained to operate the SEM, TEM, and/or XRD.

c. The NPS Security office has completed their annual Emergency Responder training.

d. We now have 5 Radiation Workers and we anticipate 4 more in the near future.

e. We will need to renew the Emergency Responder training for the Monterey Fire Department in the upcoming quarter.

7. RADIATION HEALTH PROGRAM

a. We now have a signed Memorandum of Agreement with the Presidio of Monterey Army Health Clinic to perform Radiation Medical Exams for us.

b. We have 6 terminations exams pending primarily for people who left NPS a long time ago. Their exams will take the form of a medical record review if they are unable to physically be here for an exam. We are also pending 4 re-examinations and 3 Pre-placement exams.

c. We will require additional Radiation Medical Exams prior to any accelerator operations above 1 MeV.

8. EXEMPT QUANTITIES
a. We discovered a AN-TPQ/37 Firefinder mobile radar at CIRPAS. It contains a traveling wave tube with radioactive materials. The tubes usually contain exempt quantities of materials; however, we are working with Army and CIRPAS to determine the radionuclide and source strength to confirm.

b. If this is confirmed to be an exempt source, we will give them RASP RAM Custodian training, we will inventory the source, and we will survey it annually.

9. RADIOGRAPHY

a. We are working with TF Instruments to possibly bring low energy radiography to NPS.

b. Professor Scandrett would like to use a cabinet x-ray machine in research. Most cabinet x-ray machines used in the US are certified by the FDA however, this particular x-ray machine is made in Japan and is not FDA approved. The likely course of action if we begin low energy radiography operations would to modify existing SEOPs to meet our needs.

10. STAFFING AND REORGANIZATION

a. There are significant changes being proposed to the organization of the Research Compliance Office.

b. Radiation Safety is a part of the Research Compliance Office and will be headed by the Research Compliance Director (RCD) once the position is filled. The RCD reports to the newly formed NPS Occupational Safety, Health, and Environmental (OSHE) Director currently filled by LT Angela Weyrick.

c. The reorganization brings with it some personnel changes. The duties of the Program Assistant (Candace Van Assche) and the ARSO (Ron James) will be primarily to provide support to the OSHE Directorate with very little day to day support for Radiation Safety.

d. The re-organization being proposed has been approved by the Chief of Staff but has yet to receive command endorsement.

11. iXRD OPEN BEAM TEST


b. The test was set up in the Building 230 laboratory. Boundary lines were posted 1 meter out from the x-ray tube head. An IM-231A gave readings of <0.2 mR/hr at the boundary line and 8 mR/hr directly next to the tube head.
c. We plan on performing one more open beam test ahead of the first field measurements on the USS Yorktown in November 2013.

12. Meeting was adjourned at 1105.