In attendance
Philip Judy, PhD (Co-chair)
John D. Newell Jr., MD (Co-chair)
Heather Chen-Mayer, PhD
David Gierada, MD
Joshua Levy
Baojun Li

RSNA
Madeleine McCoy

Agenda:
1. Presentation:
   a. Comparison of COPDGene Reference Standard 1 and Reference Standard 2
   b. Effects of foam batch, tube current, reconstruction kernel, slice thickness
   c. Cupping in COPDGene Reference Standard ring
2. Standards for qualification and determining equivalence of reference standards
   a. Distinction of reference standards and quality assurance standards

General Discussion:
- Need to define lung density reference standard.
  - Measuring the same patient on different devices would be ideal
  - The lung density reference standard is a specified object and method used to calibrate lung CT density measurements
  - Whatever is done as a reference standard will have to be validated or qualified in some way
  - Possible target is use of the COPD ref 1 lung material and water
    o For COPD standard 1 to be used as a reference standard it would first need to be qualified or validated as a reference standard
    o More discussion needed on future direction of the group
      - Clarity and consistency will be important moving forward
    o Need to determine the difference between a Quality Assurance Phantom and a Reference Phantom

Next steps:
- Dr. Judy to summarize the critical issues
- Dr. Levine and Dr. Chen-Mayer to report in about a month on the NIST program of matching foam; normal lung and low density lung
- Dr. Newell to ship one of the 20 phantoms to Dr. Chen-Mayer
- Profile discussion on the next Tech Ctte call on July 20th

Next calls:
- Wednesday, July 20th - COPD/Asthma Technical Committee Update Call – to discuss Profile
- Wednesday, July 27th - Lung Density Reference and Consistency Standards Work Group