From: Moody, Dustin (Fed)

To: Kelsey, John M. (Fed); Perlner, Ray A. (Fed); Liu, Yi-Kai (Fed); Alperin-Sheriff, Jacob (Fed); Bassham, Lawrence

E. (Fed)

Cc: <u>Chen, Lily (Fed)</u>; <u>Liu, Yi-Kai (Fed)</u>

Subject: Update PQC forum

Date: Wednesday, April 19, 2017 10:05:43 AM

John,

Now that we've heard back from Dan, it would be good to provide an update on the pqc-forum about the randomness issues (unless there is still something that needs to get ironed out with Dan). The last we said on the forum is shown below:

Do you think you could write something we could post to let people know what we're planning on? Thanks,

Dustin

The function randombytes() will be available to the submitters. This is a function from the SUPERCOP test environment and should be used to generate seed values for an algorithm. Randombytes should only be used to seed a NIST-approved DRBG.

For functional and timing tests a deterministic generator is used inside randombytes() to produce the seed values. If security testing is being done simply substitute calls to a true hardware RBG inside randombytes().