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FAQ: IGCC Rapid Assessment Chamber (RAC) and Provisional Certification (PC)

Q: “Can I use a RAC-PC test report for a G.21 transfer?”

A: No. You need a passing ASTM E2190 testing report to conduct a G.21 Transfer.

Q: “Do I get PC designation if I do ‘Interim Certification’ or just with RAC testing?”

A: Yes, you will receive PC designator from both Interim certification and RAC testing.

Q: What are the connection requirements if you purchase an RAC? Air, Water, Power, Internet?

A: The chamber comes with the following:

- A compressor is mounted on the chambers frame for air (compressed air won't work because it uses compressor to create vacuum in vessel)
- 3x 20-amp circuits with outlets for traditional straight blade plug ends
- 1x 15-amp circuit with outlets for traditional straight blade plug ends
- Water can be gravity fed from a reservoir, connected by a traditional hose fitting, or a ½” push to connect fitting (You can decide which works best and let us know before delivery)
- It needs a wired ethernet connection to store chamber operating date in an InfluxDB time database, date can be stored, exported, and graphically viewed from the web portal.

Q: What is the fabrication like for units that are being sent for PC?

A: A test set that is due to fabricate will complete the PC Test units in accordance with the test units fabricated for baseline testing. On the same line of production, the baseline units will be made (min of 13 for duals, 15 for triples) and 6 additional units of the exact same make up will be fabricated as well, which will be used for the PC test.

Q: Can you fabricate only 6 units for Provisional Certification?

A: No. provisional Certification is completed parallel to the ASTM E2190 testing process, and test units for provisional certification will need to be fabricated at the same time as a baseline test set.

Q: Does a plant have to send the full amount of units (baseline and PC) to Molimo for testing?

A: While we encourage baseline and PC units to be sent to the same laboratory, we do not require this. Please ensure you contact your selected lab(s) for estimated turnaround time for baseline fog results and corresponding RAC testing to ensure results needed to grant Provisional Certification are obtained as quickly as possible.

Q: Can we reduce the price of the PC testing?

A: No, we cannot reduce the price as it was a decision made by the specific laboratory internally.

Q: Is PC mandatory?

A: No, only those that wish to have PC would need to fabricate units for PC testing.

Q: Are plants allowed to ship extra units for PC testing?

A: Similar to baseline, IGCC allows an additional 2 units be made for PC (maximum of 8 units total) for concerns of shipping breakage.

Q: If a unit were to have a thermal break in the RAC, will it be replaced?

A: No, a breakage in the RAC will be deemed as a failure, and Provisional Certification will not be provided.

Q: What is required to obtain PC?

A: To have a complete Provisional Certification test Report, you will need to submit a minimum of 6 units to a PC established lab, and have those units tested in the RAC. The test report will also require fog testing results, which will be from the baseline set of fog units. It is recommended that you reach out to your designated lab to see if they will expedite the fog test results of the baseline set. It is also good to note that Molimo has offered to expedite fog testing if the baseline is sent to their location along with the PC test set.

Q: Are we allowing submission of a replacement set of prototype units for RAC?

A: We do not allow for retesting of just the RAC units-they need to be fabricated along with the full 2190 units and submitted together for testing.

Q: Are we allowing them to gain PC status for air filled (no gas) units if they fail argon and pass durability until full 2190 results are in? at which point, if they pass for gas then they could gain full C status for GCIA.

A: If they pass durability via RAC they may gain PC for air filled until the full 2190 testing results are submitted, if gas passes for this they would gain full C status for GCIA.

Q: Are we to observe the same 90% initial average gas concentration for the RAC units despite their only being 6 that have had readings conducted as opposed to the ten that are required for the baseline testing?

A: As with 2190 testing, we do not allow exchange of units if the initial gas reading(s) failed. RAC units would follow this same protocol.

Q: How many units can I submit for testing?

A: For Provisional Certification 6 units are tested. Up to 18 units are allowed for R&D purposes; however accommodations must be made by the laboratory which could lead to an increase in fees.