

Docket No.: A.25-12-009
Exhibit No.: UCAN-05-B
ALJ: Camille Watts-Zagha
Witness: Tyson Siegele

Exhibit UCAN-05-B

SDG&E Response to UCAN Data Request 01, Question 33 – SDGE0000009
GE Gas Power responses to SDG&E questions on hydrogen fuel blending
(September 22, 2020)

Appointment

From: Patel, Sagar (GE Gas Power) [sagar.B.patel@ge.com]
Sent: 9/22/2020 2:15:52 PM
To: Patel, Sagar (GE Gas Power) [sagar.B.patel@ge.com]; Amin, Dhaval (GE Gas Power) [dhaval.amin@ge.com]; Aranas, Cherrylyn (GE Gas Power) [cherrylyn.aranas@ge.com]; Hockman, Brian (GE Power, consultant) [Brian.Hockman@ge.com]; Baerman, Daniel [DBaerman@sdge.com]; Sarosa, Sugandi [SSarosa@sdge.com]; Mesquita, David G [DMesquita@sdge.com]; LaPeter, Carl S. [CLaPeter@sdge.com]; Counts, Kevin [KCounts@sdge.com]; Lyons, Steven [SLyons@sdge.com]
CC: Tomeh, Denise (GE Gas Power) [denise.tomeh@ge.com]
Subject: GE - SDG&E Miramar LM6000PC Hydrogen Fuel Mix Discussion
Location: Microsoft Teams Meeting
Start: 9/24/2020 11:00:00 AM
End: 9/24/2020 11:30:00 AM
Show Time As: Busy
Recurrence: (none)

*** EXTERNAL EMAIL - Be cautious of attachments, web links, and requests for information ***

Hello SDG&E Team,

Per our discussion last week, setting some time with you and GE - SDG&E Miramar LM6000PC Hydrogen Fuel Mix Discussion

When: Thursday, September 24, 2020 at 2:00 PM - 2:30 PM in (UTC-05:00) Eastern Time (US & Canada).

Location: Microsoft Teams Meeting
Aero team to dive little deeper into understanding capability of using Hydrogen fuel in LM6000PC engines. Below are preliminary responses to your initial questions, we can provide greater detail as we understand more about your desired operational outcome.

1. Considering 5% H2 by volume, is there any retrofit needed?
There is no package hardware required for 5%, but it will require controls changes
2. What is the maximum H2 fuel mix without any retrofit?
5%
3. Is fuel mixer necessary for 5% mix?
You will need a way to monitor and control the mixture
4. What is the impact on burning 5% H2 long term on our system? Is it quantifiable?
In order to maintain 25ppm NOx emissions you will need to increase the water- injection. This decreases the life of the combustor. At 5% H2 this impact will likely be relatively small.

Please feel free to forward this invite to anyone that must be included.

Regards,
Sagar

Sagar Patel
Senior Sales Manager, Aero Services
GE Gas Power

M: 404-B31-7039

E: sagar.b.patel@ge.com

[Unkedin flinkedfru:omi](#)

[W<lV<N.ge.com.J.ge.com1.](#)

Join Microsoft Teams Meeting

+1 860-785-9628 United States, Hartford (Toll)

Conference ID: 360 465 152#

Local numbers | Reset PIN [mysettings.lync.com1](#) | Learn more about Teams [faka.ms1](#) | Meeting options

Join with a video conferencing device

teams:Q)1nyvideo.9e.com VTC Conference ID: 1145533299

Alternate VTC dialin instructions [L:ip.nyvideo.9e.com1](#)

Help [nyvtech.9e.com1](#) | Legal [ro365.dwt.digital.9e.com1](#)

This email originated outside of Sempra Energy. Be cautious of attachments, web links, or requests for information.