

December 4, 2020 The Woodlands, TX

Arpit Soni Manager, Alternative Fuels Section California Air Resources Board 1001 Ninth Street Sacramento, CA 95814

Dear Mr. Soni,

Thank you for the last communication with your team regarding the potential inclusion of H2 as eligible for book and claim under section 95488.8(i) of LCFS regulation.

As discussed, there are some aspects to consider when evaluating this option. Linde owns and operates a private pipeline system which we control and manage, consisting of H_2 production facilities, compression, pipelines and customers. H_2 storage in caverns is also available in some of Linde's H_2 networks.

The normal operational mode for such a H₂ network system includes H₂ mass balancing:

- It is standard procedure to do mass balancing in a privately owned and operated H₂ network
- We are able to track and allocate H₂ generated by our production facilities to our customers through this network with an advanced accounting system and a series of metering devices
- Renewable diesel facilities and other customers are connected into this network by a dedicated connection, allowing us to mass balance H₂ into their production process

The implemented accounting system allows for better data traceability and availability:

- H₂ network accounting system used for billing purposes guarantees physical traceability of produced and delivered H₂ molecules in the pipeline network
- Continuous monitoring for H₂ mass balancing in the network improves data availability
- Metering devices onsite provide the required online monitoring data

For reference, see below a graphic description of a H2 pipeline network:



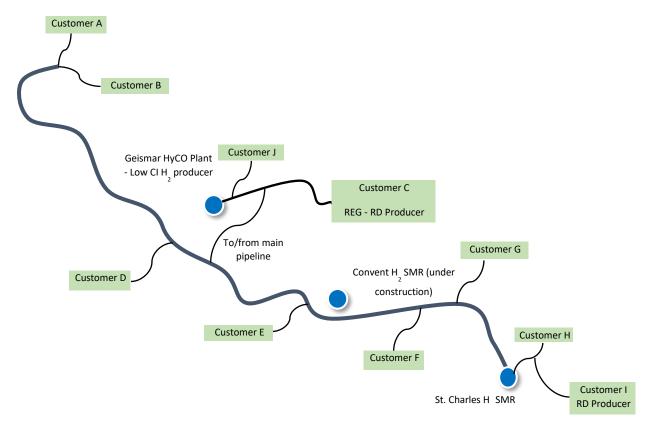


Figure 1: Overview of Linde's South East Louisiana H2 Pipeline Network

We believe it is technically possible to secure the environmental integrity of allowing H_2 to eligible under the book and claim provisions of the LCFS regulation, while avoiding double counting with a strong accounting system. The accounting system will provide the required information for the Verification step in CARB's LCFS procedures.

We would like to kindly ask CARB staff to take into consideration the above information for evaluation and request to include H2 as eligible under book and claim LCFS regulation. Should you wish to discuss our comments in more detail, please contact me at carlos.ospina@linde-gas.com and Mikhael Skvarla, Linde's governmental relations representative at The Gualco Group, Inc. at Mikhael-Skvarla@gualcogroup.com.

Thanks for your attention and support during this process.

Best regards,

/s/

Carlos Ospina Business Development Manager Hydrogen and Syngas