H2FCP SOSS HRS Listing Criteria for LDV

Number of Fueling Positions:

QTY=2, minimum, for Market Initiation, Coverage Growth or Capacity Growth Area

QTY=1, minimum, for Connector or Destination Area

HRS Design Requirements, each Fueling Position:

SAE J2601 (2020 or latest) fueling protocol for H70 T40 (preferred) or T30

Design for CHSS Category B (4~7 kg) and shall provide >95% ending SOC, as measured by the vehicle, for all dispensed mass in this range from initial starting pressure of 10 MPa (SAE J2601)

Dispensed capacity per table below for each HRS type (Target v. Minimum Performance)

HRS shall be validated by a state testing program or 3rd party test certification per ANSI/CSA HGV 4.3 (2022 or latest) as required by NFPA 2, Chapter 10 and sited in International Fire Code Chapter 23

Fuel quality shall conform with SAE J2719 (2020 or latest) or ISO 14687 (2025 or latest) with control per quality management plan ISO 19880-8 (2024 or latest)

HRS shall include a SOSS interface per the H2FCP protocol

Dispenser shall include a retail Point of Sale in conformance with the applicable Weights & Measures department, with payment by EMV complaint card reader, and without access restrictions (i.e.; PIN code, training, …)

Dispensed Capacity per Fueling Position	Target Performance [LCFS HRI Max Credit Value]		Minimum Performance [Low Capacity]	
[fueling metric]	[kg]	[vehicles]	[kg]	[vehicles]
Peak Hour	30	7.5	16	4
12-Hour Profile	300	75	160	40
24-Hour Profile	400	100	200	50

Notes:
Mass dispensed and number of vehicles are shown as a recommended minimum value.
Number of vehicles assumes 4 kg per vehicle hydrogen dispensed amount, for reference only to describe capacity; LDV HRS shall comply with SAE J2601 Category B (4~7 kg dispensed).
Based on ANSI/CSA HGV 4.9 (2016) including Chevron Friday profile, NREL HySCapE 1.0 model, and CARB LCFS HRI program instruction, and CEC GFO 19-602.
Assumes reference time interval between consecutive fills during peak hour of <4.25 min (Target Performance) and <11.25 min (Minimum Performance).
Weights & Measures reference: NIST OIML R 139 (https://www.nist.gov/pml/owm/hydrogen-development-international-standards) and Handbooks 130 and 44.