



# Hydrogen + CNG Vehicle Testing Capabilities The Only One in the Midwest

Offering a wide range of electrification and environmental testing services for medium- and heavy-duty commercial vehicles, Allison's Vehicle Electrification + Environmental Test Center helps customers get to market faster with reliable, seasonally independent testing results — all under one roof in Indianapolis, IN.

As the only H<sub>2</sub> testing facility of its kind open to the public, the facility offers fuel cell testing, overall truck performance testing and more in one simulated environment. Testing at this state-of-the-art facility removes the uncertainty of mother nature and saves time, money and travel through controlled, repeatable testing conditions that reduce risk and save time.

Continuous H<sub>2</sub> Supply to Vehicle





# Chassis Dynamometers Test Cells

## Safety

- Gas sensing of room and exhaust
- Thermal flame detection
- Fire suppression

## Supply

- Constant supply of H<sub>2</sub> up to 500 psi direct to vehicle

## Testing Features

- Two Motoring Dynamometers Test Cells
- Extreme thermal -54° to +125°F (-48° to + 51°C)
- Humidity control
- Tandem axle capability
- Regenerative battery charging
- Grade simulation +/- 30 degrees
- Top speed = 100mph
- Nominal force: 5,395lbf – 17,985lbf (24kN – 80kN)
- Test room dimensions 30' W x 75' D x 22' H

# Static Thermal Soak Cell

## Safety

- Gas sensing of room and exhaust
- Thermal flame detection
- Fire suppression

## Testing Features

- Static thermal chamber 36' W x 55' D x 18' H
  - Capacity to house two articulating buses or multiple vehicles
- Extreme thermal -54° to +125°F (-48° to + 51°C)
- Humidity control



# Motoring Dynamometers

The facility's two motoring dynamometers eliminate the need to have road-approved vehicles to complete testing, reducing project investments and saving valuable time.

- Two heavy-duty AWD dynamometers
- Capable of vehicle road simulations of 4,000 – 82,000lbs (1,815kg – 37,195kg)
- Up to +/- 30 degrees of road grade
- Regenerative brake testing for mechanical and electrical development
- Concurrent extreme environmental simulation and temperature range of -54° to +125°F (-48° to + 51°C) while testing



## Test With Confidence

All testing in this facility is secured, operated and managed independently from Allison Transmission, Inc., keeping customer IP, data and property secure and confidential.

### For more information or to schedule a tour, contact:

David Proctor | General Manager  
David.Proctor@allisontransmission.com  
317-696-7017

One Allison Way  
Indianapolis, Indiana USA 46222-3271

Information or specifications subject to  
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