

# LEVIII Evaporative Emissions Standards and Test Procedures

# Evaporative Emissions Regulations

- **Current**

- Certify to whole vehicle hydrocarbon standards (3-Day + HS, Running Loss and 2-Day + HS)
- Or optionally certify to zero evap standards
  - Whole vehicle
  - Zero fuel demonstration or “rig” test

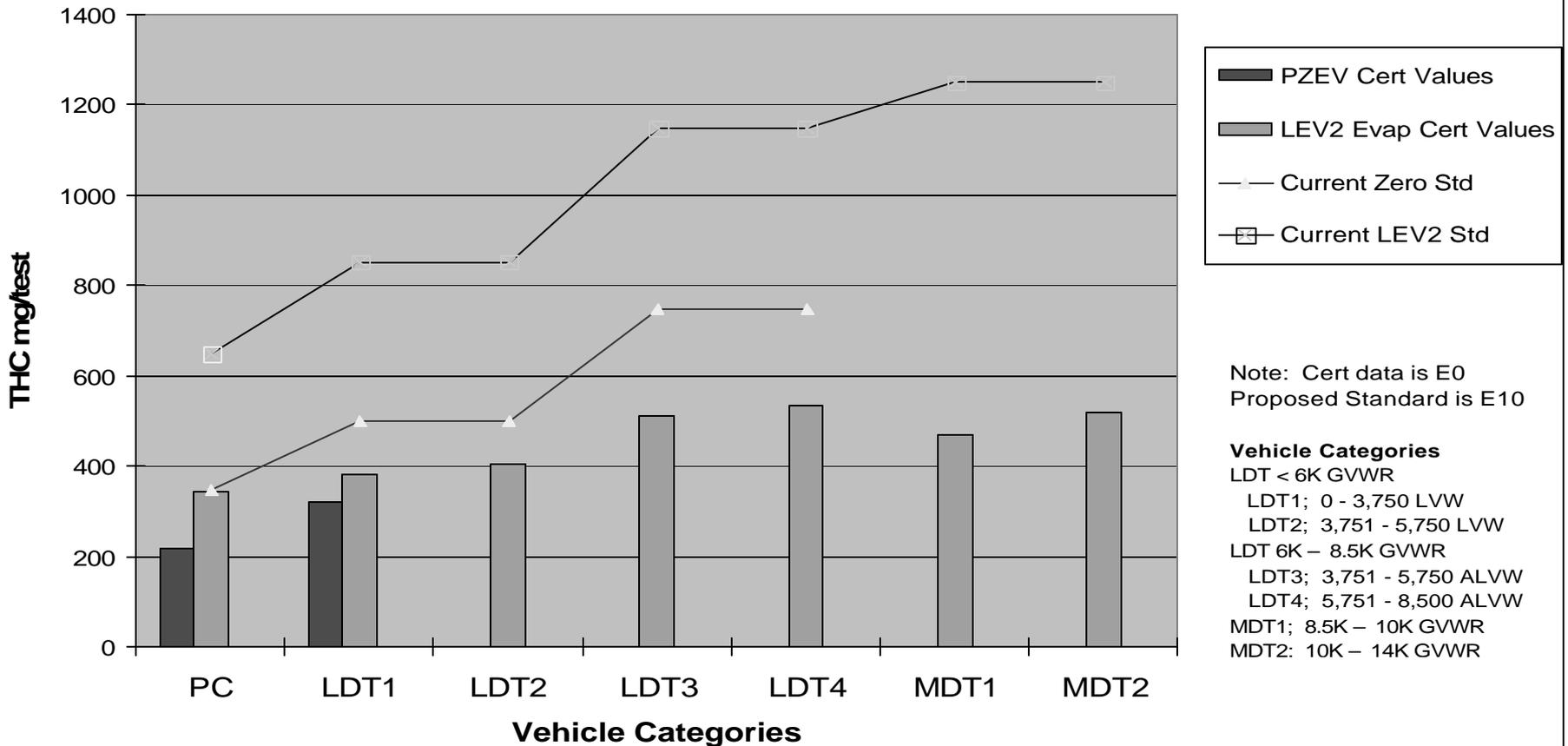
- **Proposed**

- Require all vehicles to meet zero evap standards
- Certify using current zero evap procedures (rig and whole vehicle standards)
- Or optionally certify to a lower whole vehicle standard with no rig requirement



# Evap Certification Data

2009 MY 2-day + Hot Soak



# Evap Issues and Next Steps

- Backsliding Prevention
- Impacts of E10 Cert Fuel
- Averaging provisions for alternative
- Phase in from 2014 MY to 2022 MY
- Test Program – on hold

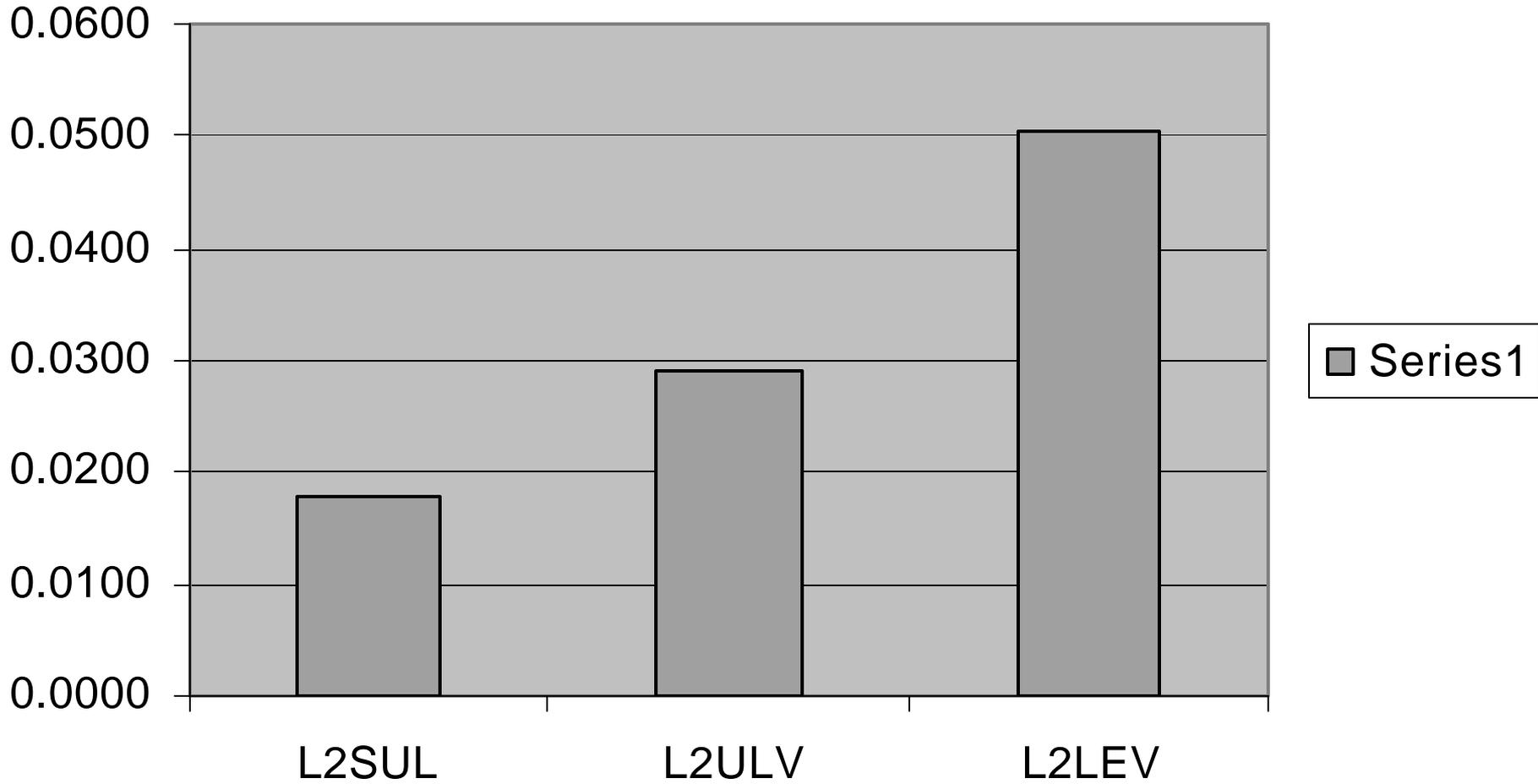
# **Enhanced Supplemental Federal Test Procedures Rulemaking**

## **SFTP II**

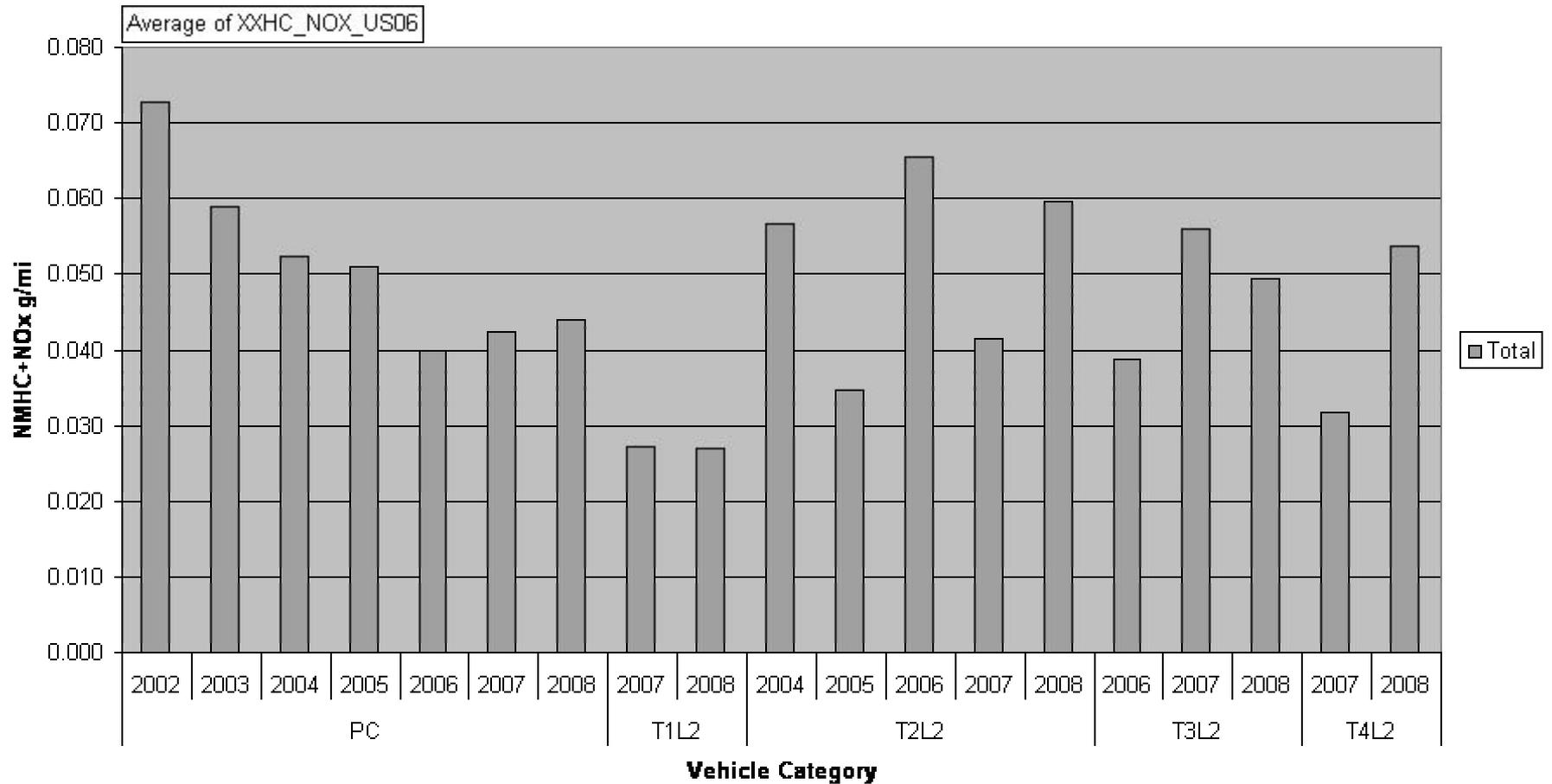
# What's New

- Fleet Average Composite < 8,500 pounds
  - $SFTP = 0.35(FTP) + 0.37(SC03) + 0.28(US06)$
  - Proposed final composite level is 0.050 g/mi
  - Takes into account high variability on US06 cycle
  - Maintains current low emissions under high-speeds and loads
  - Appropriately considers GHG technologies (i.e., future clean diesel, lean burn gasoline, downsized engines, etc.)

# US06 4K Average Certification Values (2002-2009 MY)



### US06 Average Certification Values



# SFTP II Next Steps

- Continue working with industry
  - Phase-in considerations
  - Appropriate US06 emissions cap
- Duty cycle for over 8.5K GVWR still being discussed
  - Needed adjustments for MDV

# Evap and SFTP II Contacts

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