

TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

FF007: H2 VEHICLES – MERCEDES SPRINTER

The 1998 Mercedes Sprinter originally was equipped with a 2.4L gasoline engine, but was converted to pure hydrogen by the German government as part of the hydrogen demonstration program in Hamburg. Modifications to the vehicle included adding three hydrogen tanks (115L), CV injection and a spark ignition. APS received the vehicle in January 2002 to test the APS pilot refueling station.



During the almost three years of operation in the APS fleet, the Sprinter van has had only minor mechanical problems, resulting in an operating cost of \$0.099 per mile. As of December 2003, the Mercedes Sprinter had operated 9,300 kilometers (15,000 miles) in the APS fleet with no safety problems encountered, and an average fuel efficiency of approximately 25 mpg.



The vehicle has been demonstrated and exhibited in numerous events throughout America. The logo on the sides of the vehicle are the original logo from the City of Hamburg. Translation is “*we drive with hydrogen for a cleaner world.*”

| Operation Range | H2 GGE (kg) | Efficiency (mpg) | Emissions | CO2 Emissions |
|-----------------|-------------|------------------|------------------------|---------------|
| 100 | 4 | 25 | H ₂ O Vapor | 0.00% |



For more information contact the APS Future Fuels Program at 602-250-1509 or futurefuels@aps.com