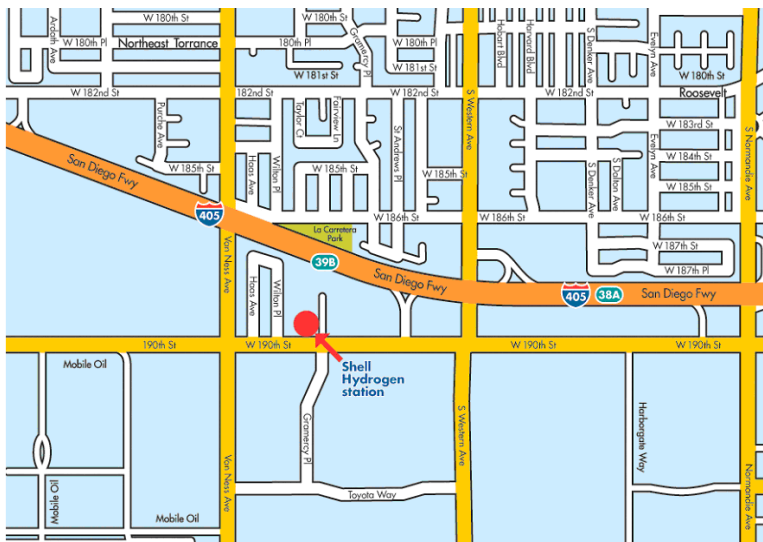


Torrance Hydrogen Station

Shell plans to build a hydrogen refueling station in Torrance, Calif., that will provide fuel to the growing number of hydrogen-powered vehicles in the Los Angeles area. The Torrance station will be the seventh hydrogen fueling facility Shell has built in the U.S. and will form part of a “cluster” we are developing specifically in the Los Angeles area. Shell opened an integrated gasoline/hydrogen station in West L.A. in 2008 and its “sister” station in Culver City in 2009; we plan on building another integrated facility in Newport Beach next year. The Torrance station’s proposed design includes a Learning Center. This will serve as a community resource for those interested in learning more about hydrogen fuel and vehicles.

More facts:

- Toyota has provided land at the corner of W. 190th Street and Gramercy Place (please see map below).
- Project partners include Shell Hydrogen, Toyota, Air Products, U.S. Department of Energy, South Coast Air Quality Management District.
- Station will operate for 3-6 years and is expected to open by early 2010.
- Station will have two pumps and provide hydrogen fuel only, not gasoline.
- The facility will be open 24 hours a day.
- Fueling capacity: 10 -12 fuel cell vehicles per day.
- The station will provide 50 kg hydrogen per day, equivalent to dispensing 50 gallons of gasoline per day.
- Toyota, Honda, GM, Daimler and other auto manufacturers will use the station to fill their fleets of hydrogen fuel cell vehicles.
- The tailpipes of hydrogen fuel cell vehicles emit nothing more than water vapor and heat.
- Fuel cell vehicles are at least twice as efficient as gasoline-powered cars.
- Hydrogen fuel has been proven over the years to be as safe as other fuels used in vehicles today.
- Hydrogen is not harmful to the environment: it is non-toxic, non-carcinogenic and cannot contaminate groundwater or air.



Frequently Asked Questions:

1. What is the approval process for this station?

We are currently in the process of permitting the station with the city of Torrance and anticipate finishing this by September 2009.

2. When is construction expected to begin? Will there be any street closures?

The goal is to begin construction this Fall and we anticipate it will last four to six months, based on when Shell receives its construction permits from the city. We do not expect any street closures.

3. Is hydrogen safe? What safety measures will be incorporated at the site?

Safety is a number one-priority for Shell Hydrogen. Shell has many years of experience in working with hydrogen and is collaborating closely with local fire and safety officials to ensure that our stations operate safely, within federal and local regulations. Shell Hydrogen is responsible for the maintenance.

When handled properly, hydrogen is a very safe fuel. Like all fuels, hydrogen has energy and needs to be handled carefully. Hydrogen, like gasoline, is flammable and explosive under containment. It can be dispensed as a liquid or as a pressurized gas, very similar to how natural gas is commonly dispensed today. Unlike gasoline fires that can take a long time to burn out, hydrogen burns quickly and with low radiant heat.

We have implemented a host of safety features at our station in West Los Angeles, which we will also use at our Torrance Station. These features include provisions to prevent, detect and eliminate leaks. Some specific safety features are:

- a. We perform three separate formal engineering analyses to verify the design and insure the safety and integrity of each of the station's subsystems.
- b. Safety sensors continuously monitor the fueling process and indicate when the vehicle is full. These sensors cannot be manually overridden like a gasoline nozzle can.
- c. "Break away" hose connections prevent leaks if the car attempts to drive off with the dispenser hose still connected.
- d. Automatic shut-off systems in case of an emergency.
- e. State-of-the-art fuel sensors, electronic control systems and venting systems (similar to those used for gasoline facilities but more advanced).
- f. Closed fueling nozzles designed to prevent unintentional fuel releases and allow hydrogen to flow only when connected to a car. (Gasoline nozzles do not offer this safety feature.)
- g. All equipment has a proven performance and safety record. The proposed equipment is commercially available and has been used for many years. Regular inspections, monitoring and analysis is conducted to provide additional confidence in the system's safety.
- h. All drivers of fuel cell vehicles must be trained to use the dispensers and are given access codes.

Please visit our website if you have any questions:

www.shell.com/hydrogen

Or call us at 1-310-818-0515



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