The Shell Oil Products U.S. Martinez Refinery (Shell Martinez Refinery) is on approximately 880 acres in Contra Costa County, partially within the city boundaries of Martinez, CA. The 24-hour plant reportedly has 720 full time employees with an additional 200 contractors on site to perform contract work. The Shell Martinez Refinery is on industrial property. Land use surrounding the Shell Martinez Refinery is a combination of industrial, open space, environmental conservation, and residential. The Shell Martinez Refinery processes about 165,000 barrels (1 barrel = 42 gallons) of crude oil for conversion into gasoline, jet fuel, diesel, and asphalt products. The plant produces enough gasoline to fill 252,000 cars, enough diesel to fill 13,125 18-wheel trucks, and enough jet fuel to fill 21 jets (747’s) per day.

Hazardous Substances Stored or Produced Onsite and their Immediate Health Effects

- **Flammable Gases**: May be a mild irritant to throat, nose, and lungs. May cause discomfort to eyes.
- **Hydrogen Sulfide**: Colorless, rotten egg smelling, corrosive and toxic gas. May irritate nose, throat, and lungs. Causes headaches, dizziness, and difficulty in breathing.
- **Aqueous Ammonia**: Colorless liquid with pungent odor. May cause nausea, breathing difficulty and convulsions. Made by dissolving anhydrous ammonia in water.
- **Anhydrous Ammonia**: Colorless, corrosive, irritating gas. Has a sharp suffocating odor. Inhalation can cause irritation in nose, throat, and lungs. May cause shortness of breath, headache, nausea and vomiting.
For more information:
Copies of the latest audit findings, Risk Management Plan, and Safety Plan can be found in the following locations:

CCHMP Hazardous Materials Office
4585 Pacheco Blvd., Suite 100, Martinez, CA 94553

Martinez Library
740 Court St. Martinez, CA 94553

Visit our website at cchealth.org/groups/hazmat or call 925-335-3200.

Shell Oil Products U.S. Martinez Refinery
Martinez, CA

3-year Accident History (Last updated October 2015)
There have been no incidents large enough to require reporting in the last three years.

Safety Features and Recent Improvements (updated October 2015):

- Eliminated unnecessary, non-essential piping that could lead to leakage. Upgraded metallurgy and seal design of select piping and equipment to better resist corrosion.

Summary of Most Recent Audit (May 2015):
Contra Costa Hazardous Materials Program audited and verified that most of the programs required under the California Accidental Release Prevention and County Industrial Safety Ordinance have been created and are in good shape. The facility has an effective method for controlling permanent changes to equipment and procedures. The facility needs to improve documentation of their evaluation of maintenance procedures to minimize potential impacts to their processes due to human error. Improvement is also needed in making sure that procedural hazard reviews evaluate more than just the critical step(s) within the procedure.