Safe Harbor Statements

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Forward-looking statements reflect information, facts and circumstances only as of the date they are made. The Companies assume no responsibility or obligation to update forward-looking statements to reflect actual results, changes in assumptions or changes in other factors affecting forward-looking information after such date.
Torrance Refinery Mission

• Produce high quality fuel products in a safe, reliable and environmentally responsible manner – primarily for Southern California

• Comply with state, federal and local rules and regulations

• Earn the right to operate in this community
Torrance Product Slate

70% Gasoline: CARB Blends
10% Jet Fuel: Military & Commercial
5% Diesel Fuel
3% Petroleum Gas: Propane & Butane

Other Refined Products
- Petroleum Coke
- Carbon Dioxide
- Sulfur

12% Carbon Dioxide
The Alkylation Process

• The alkylation process converts low-value liquid petroleum gases into a high octane gasoline ingredient called “alkylate”
  o High octane hydrocarbons prevent auto-ignition of gasoline (knocking) in an engine
  o Refineries blend alkylate with other refined hydrocarbons to make gasoline

• Alkylate is required to meet CARB gasoline standards – the world’s most stringent
  o Provides high octane ratings and possesses cleaner-burning properties
  o Each barrel of alkylate allows blending of ~5 barrels of CARB gasoline
  o Alkylate is required to make every gallon of gasoline sold in California
Alkylation Unit Safety Systems

• Preventive Safety Systems

• Incident Response Safety Systems
Release Prevention and Monitoring Systems

• Preventive Safety Systems
  o Specialized PPE and training required for all personnel entering the unit
  o Robust inspection and audit program
    - Follow API 751 HF Recommended Practices
    - Industry standard practice recognized by OSHA and other agencies
  o Two Operators stationed on unit each shift in contact with Console Supervisor
  o Eight surveillance cameras with video playback
  o Emergency simulation drills
    - Joint TORC and TFD drills
    - TORC and TFD both Hazmat trained
  o Modified HF Acid
    - >50% Airborne Reduction Factor (ARF)
      per MHF chemistry
    - Online MHF Analyzer
Safety: Determining MHF’s Airborne Reduction Factor

• Airborne Reduction Factor (ARF): The percentage of HF that remains in a liquid state when MHF is released to the atmosphere
  o ARF calculated using temperature, water %, additive %, and HF % in the unit acid stream
  o Refinery provides ARF results to Torrance Fire Department monthly

• Rigorous testing performed in the 1990’s shows that MHF catalyst, when combined with barriers at Torrance Refinery, provides 89% ARF
  o Supplementary mitigation systems would contain a potential release on site

• Torrance Refinery has been using MHF since 1997 with NO offsite release
Modified Hydrofluoric Acid

• Chemical mixture of HF Acid, additive, water, acid soluble oil and light hydrocarbons used in the alkylation process

• Both the additive and water separately create hydrogen bonds with HF
  o Eliminates flash atomization of mixture in the event of a release
    - Atomization occurs when a substance disintegrates into small droplets when a pressurized liquid is released into the atmosphere
    - Prohibits a ground-hugging vapor cloud from forming
  o Promotes rainout, keeping a release in a liquid state

• Extensively tested at low and high additive concentrations in 1990’s
  o Tests were performed at wide range of unit operating conditions, including current concentration levels
Emergency Response Safety Systems

• Redundant response systems allow rapid response and mitigation to any potential loss of containment
  
  o Barrier technology (89% total unit ARF when combined with MHF chemistry)
    
    – Flange barriers
Emergency Response Safety Systems

- Redundant response systems allow rapid response and mitigation to any potential loss of containment
  - Barrier technology (89% total unit ARF when combined with MHF chemistry)
    - Flange barriers
    - Settler belly pans
Emergency Response Safety Systems

• Redundant response systems allow rapid response and mitigation to any potential loss of containment

  o Barrier technology (89% total unit ARF when combined with MHF chemistry)
    - Flange barriers
    - Settler belly pans
    - Acid circulation pump enclosures
Emergency Response Safety Systems

• Redundant response systems allow rapid response and mitigation to any potential loss of containment
  
  o Water Mitigation
    - Nine remotely controlled water cannons
      - Used in tandem with console cameras to target a specific release point
Emergency Response Safety Systems

• Redundant response systems allow rapid response and mitigation to any potential loss of containment
  
  o Water Mitigation
    - Nine remotely controlled water cannons
    - Local fire monitors
Emergency Response Safety Systems

- Redundant response systems allow rapid response and mitigation to any potential loss of containment
  - Water Mitigation
    - Nine remotely controlled water cannons
    - Local fire monitors
    - Deluge systems on major pumps
    - Fire sprays on vessels
Emergency Response Safety Systems

- Redundant response systems allow rapid response and mitigation to any potential loss of containment
  - MHF sensors
    - 27 Point sensors
    - Open path lasers on unit perimeter
HF Point Sensors and Line of Sight Lasers

• **27 Point sensors located throughout unit and on perimeter**
  - Detect HF down to 0.1 parts per million (ppm)
  - Alarms internally at 2 ppm
  - Reported directly to AQMD at 6 ppm
  - In the process of completing a similar alarming system to TFD

• **Line of Sight Laser system on unit perimeter**
  - Detect HF down to 0.1 ppm per meter (ppm*m)
  - Alarm internally at 50 ppm*m and 75 ppm*m
Emergency Response Safety Systems

• Redundant response systems allow rapid response and mitigation to any potential loss of containment
  
    o MHF sensors
      - 27 Point sensors
      - Open path lasers on unit perimeter

    o Acid Evacuation System
      - Blast wall around fresh acid and AES storage vessels
Acid Evacuation System

• Emergency system that removes all acid from the main unit to a storage drum located behind a blast wall
  o 80% of acid is removed in ~2 min
  o The remaining 20% is transferred within 7 minutes from system activation

• Automatic valves have battery backups to allow operation in the event of a power disruption
Emergency Response Safety Systems

- Redundant response systems allow rapid response and mitigation to any potential loss of containment
  - MHF sensors
    - 27 Point sensors
    - Open path lasers on unit perimeter
  - Acid Evacuation System
    - Blast wall around fresh acid and AES storage vessels
  - Acid detecting paint
Acid Detecting Paint

• Painted on all flanges and connections in acid services
• Extremely sensitive and changes from yellow to red in the presence of HF
  o Will react to HF concentrations in the parts per billion (ppb) level
Emergency Response Safety Systems

- Redundant response systems allow rapid response and mitigation to any potential loss of containment
  - MHF sensors
    - 27 Point sensors
    - Open path lasers on unit perimeter
  - Acid Evacuation System
    - Blast wall around fresh acid and AES storage vessels
  - Acid detecting paint
  - Alarmed safety showers
Torrance Refinery
MHF Alkylation Unit Safety Systems

AQMD Proposed Rule 1410 Working Group Meeting
May 18, 2017