



human energy®

Medical Support During TAs

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Richmond 3/17/2016



Richmond 2015 FCC Turnaround

- Original plans called for the refinery to perform major work on its FCC reactor and regenerator to ensure reliable operation for the next 20 years.
- As company management took a broad view at more than a dozen FCC units across all of our refineries, it sanctioned a larger turnaround that would involve replacing major components of both the regenerator and reactor. This decision was influenced by lessons learned from the 2013 turnaround at our El Segundo (Calif.) Refinery.
- What was originally conceived as a large turnaround became a “mega-event” requiring approximately 1.9 MM workhours and 3,000 workforce – one of the largest turnarounds in Richmond’s history.
- Achieving this major turnaround would require the services of a massive 2,600-ton Lampson crane, one of the world’s largest land-based crawler cranes, and would involve almost a year to prepare the site for the crane’s arrival.



Richmond Early Injury Management (EIM) Program

Notification and Reporting Requirements

Refinery Shift Leader Coordinates the Process

Onsite Fire Department

- Staffed 24/7
- EMTs
- Provide first aid treatment
- Coordinate for higher levels of care following CC County EMS guidelines

Onsite Clinic

- Staffed 24/7
- Nurse Practitioner/Physicians Assistant and LVN
- Provides emergency health care services and first aid treatment
- Routine Medical exams, D&A testing for employees, injury follow up and return to work evaluations
- Staffing supplemented during large shutdowns as needed

CareOnSite Offsite Clinic



FCC Turnaround Medical Support

Forward Deployed Medical Unit

Staffed 24/7

Similar capabilities as onsite clinic:

- First Aid Treatment
- Care for non-occupational conditions
- Management of pre-existing conditions

Stocked with

- OTC Medications
- Prescription Medications
- Wound Care Supplies
- Eye Care Supplies
- Ortho Supplies
- Emergency Bag
- Other Equipment



Injury Performance During Execution (October-December 2015)

Common Conditions Treated:

- Particles in the Eye (PIEs)
- Hand/finger lacerations/ abrasions/ contusions
- Slips, Trips, and Falls
- Sprains and Stains
- Minor Burns

Approximately 1.9 million combined man hours worked

1 recordable injury (hand injury)



Questions?

