





12 Th Annual Implementation Workshop October 24-26, 2005 Houston, Texas

D I & M at Gas Processing Plants

- → Dynegy's experience w/ D, I & M Program
- ★ Dynegy was involved with both Phase I & Phase II studies.
- Dynegy sites under study- Two gas plants & two compressor stations



Phase II Study



- ★ Eunice Gas Plant Eunice , NM
- ★ Eunice North & South Comp. Stns.
- ★ Chico Gas Plant Chico , TX
- **★** East Chico & Sitz Comp. Stns.



Eunice Gas Plant

- ★ Constructed in 1948
- ★ Sour Gas Processing Plant
- ★ Part of the Facility under LDAR Program
- Number of components monitored
- ★ Number of leaks found



Eunice Plant







Eunice Plant – Engine Room







Eunice Plant







Eunice Compressor Stations

- ★ Eunice North Comp. Stn.
- Number of components monitored vs. leaks found
- **Eunice South Comp. Stn**
- Number of components monitored vs. leaks found



Chico Gas Plant

- ★ Constructed in 1966
- ★ Sweet Gas Processing Plant
- ★ Part of the Facility under LDAR Program
- Number of components monitored
- ★ Number of leaks found



Chico Plant







Chico Plant







Chico area Compressor Stations



- ★ East Chico Compressor Station
- ★ Number of components monitored vs. leaks found
- Sitz Compressor Station
- Number of components monitored vs. leaks found



East Chico Compressor Station







Sitz Compressor Station







Sitz Compressor Station







D I & M program- Identification of leaks

★ Conventional methods such as sniffing, soaping and ultrasonic etc.

Optical Infrared Remote Leak Detection method



Infrared LSI Camera







Conventional vs Remote Sensing

★ Speed: 2,400 comp./day 2,300 comp./hr

★ Mobility: most areas difficult in congest.

elevated : difficult easy

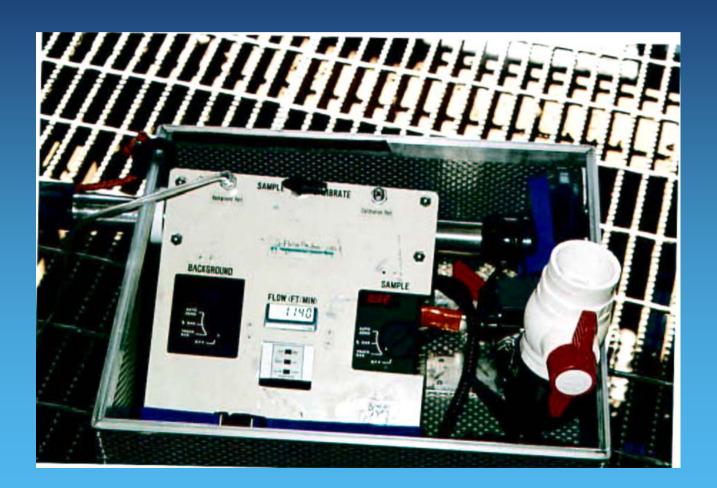
Cost: \$1200/ day \$4000/ day

★ Safety: less more

proximity distance



High Volume Sampler







Future Plans



- ★ Fix all the leaks that were identified thru the survey
- ★ Develop & Implement a maintenance program on a more frequent basis using Leak survey study
- ★ Dynegy is evaluating to apply the optical remote sensing method on a more frequent basis.



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