

ExxonMobil Baytown Frame 6B IGV LVDT Relocation

Frame 6B User Group Meeting
June 6-9, 2011
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ExxonMobil
Chemical

Baytown Cogen Vital Stats

- Located in Baytown, TX (about 25 miles east of Houston)
- Supplies power & steam to Baytown Refinery & Chemical Complex

- 3 PG-6541 Units
- Commissioned in 1989
- Base load, NG fuel, NOx steam injection
- Approx 190k fired hours

LVDT Relocation

Problem: change in compressor operation from base-load to power RTO resulted in an increase in IGV LVDT failures

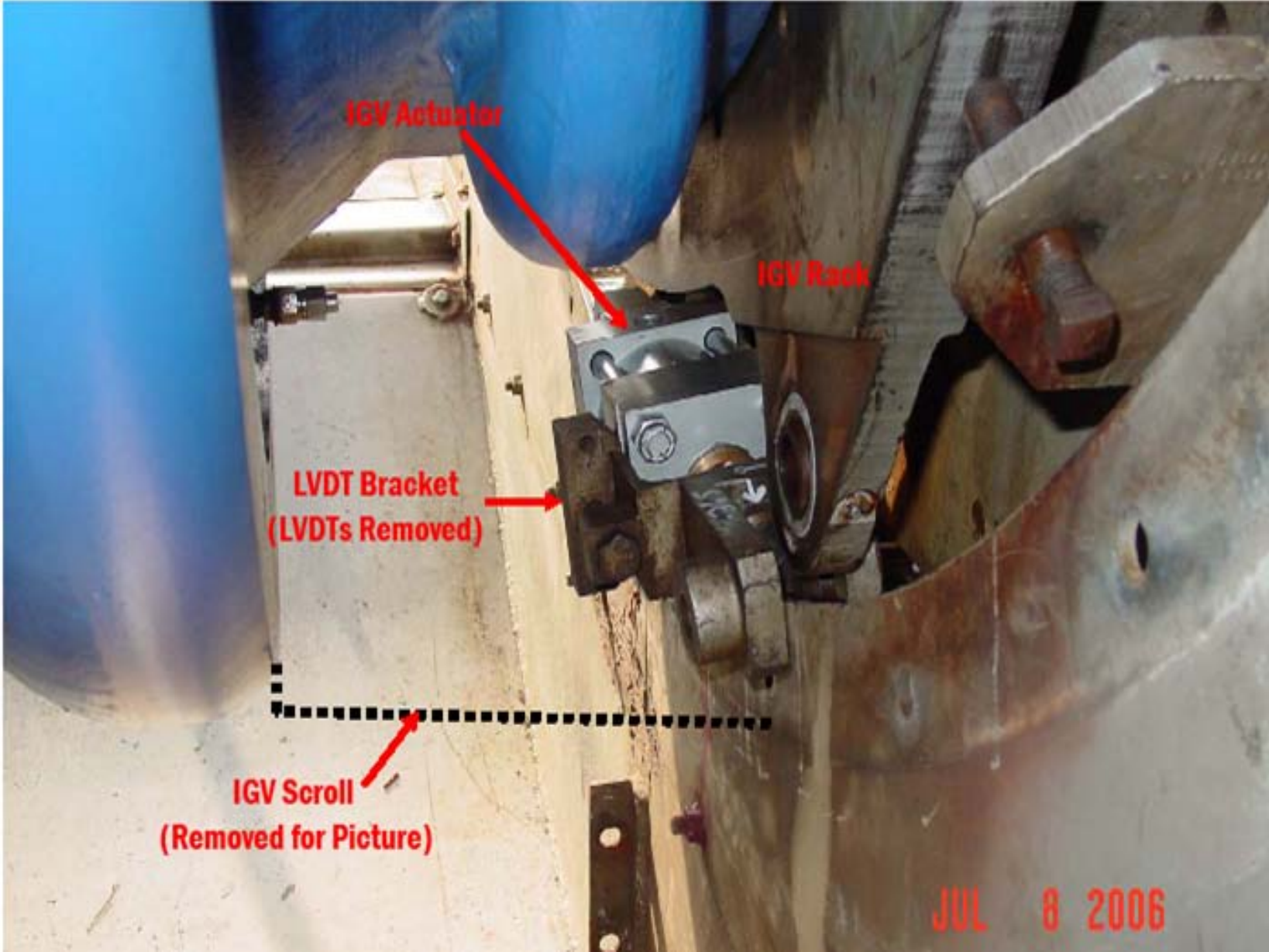
LVDTs located as part of the IGV actuator assembly are very difficult to align properly.

Solution- move LVDTs to a side mount position and add an additional LVDT for improved reliability

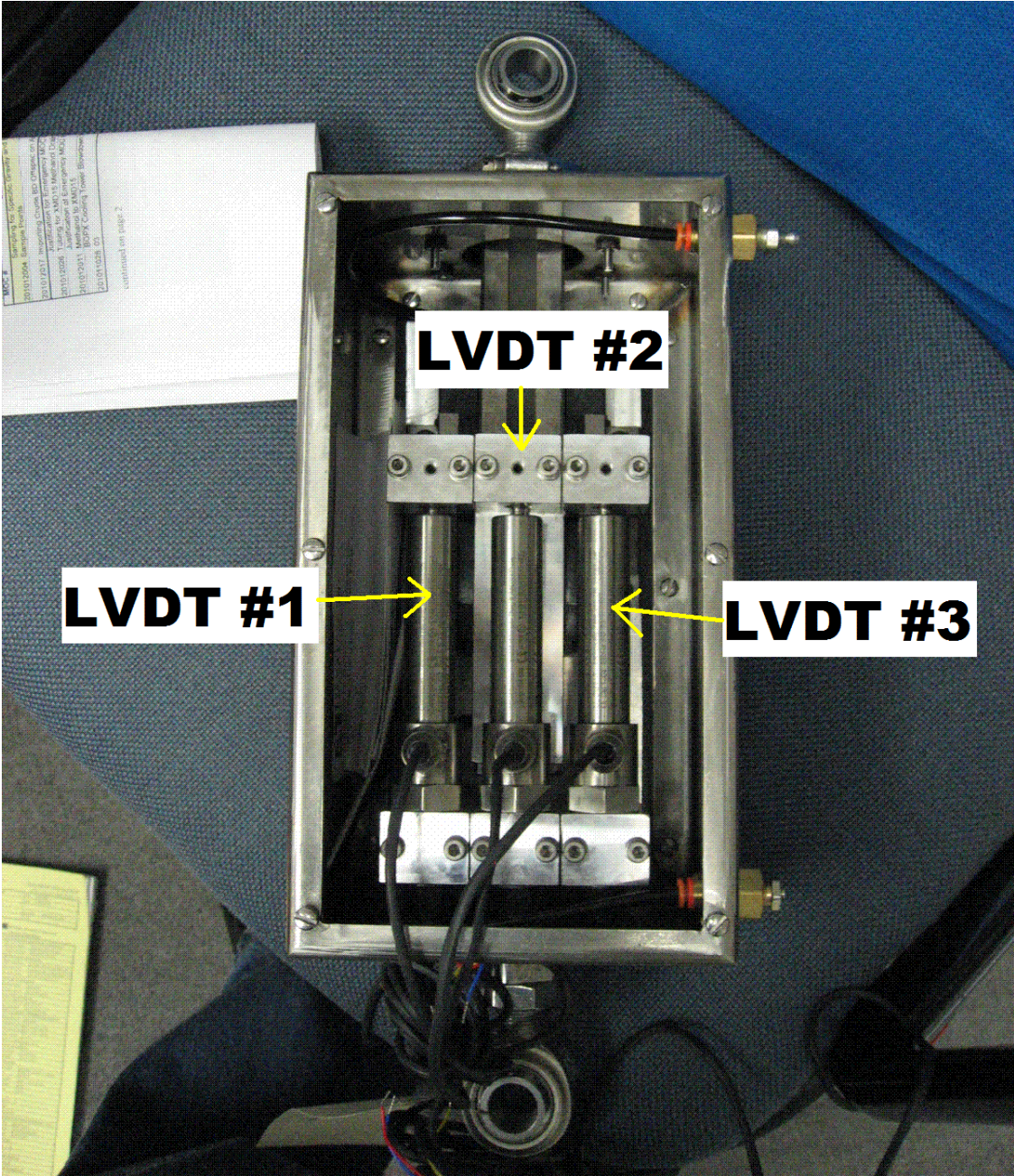
Features:

- Use 3 LVDTs in a medium select configuration
- LVDTs are mounted on a linear bearing to maintain LVDT alignment between the core and housing
- Vertical orientation and location reduces opportunity for misalignment
- External grease fittings for the linear bearing

LVDT Vendor: Pete Yoder, Oil Quip, 225-751-9838







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LVDT #1

LVDT #2

LVDT #3

