



## AVH ENGINEERING FORENSIC SERVICES

### Forensic Engineering and Expert Witness Services for Large-Loss Insurance Subrogation and Litigation

AVHENG has led and supported forensic boiler and machinery breakdown investigations for accidents, fire, and explosion failures to pressure equipment, including vessels and piping, process and storage tanks, and pipelines. AVHENG's Subject-Matter Experts work in tandem with the owner/user, and in support of the insurance adjustor or legal firm to facilitate the claim process and evaluation. AVHENG provides experienced expert witness support and testimony in legal claims, working closely with counsel preparing documentation, expert reports, testing, and technical evaluations, and providing technical expert advice. AVHENG consultants' failure investigation experience includes:



- Multiple unit-level major refinery explosions and fires
- Multiple polyethylene reactor furnace failures and unit-level damage assessments
- An extensive sulphur reactor furnace fire and failure
- Fired-heater fire
- Warm lime softener tank failure
- 24-inch oil emulsion pipeline failure
- Pipeline probability of failure
- Upgrader piping fire
- Oil emulsion pipeline failure
- Refinery product loading failure

The insurable loss valuations of these incidents exceed a quarter billion dollars in claims, and the total loss valuations for these incidents exceed half a billion dollars.

AVHENG has provided direct forensic support services, including:

- root-cause failure analysis
- repair planning and future mitigation strategy
- subrogation investigations representing either the owner or the insurance company
- expert witness services and support

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