



AVH ENGINEERING FORENSIC SERVICES

Forensic Engineering and Expert Witness Services



AVHENG has led and supported forensic investigations for accidents, failures, and damage to pressure equipment, process and storage tanks, and transportation pipelines. AVHENG has fulfilled this mandate as a direct representative, in tandem with the owner/user, and in support of the insurance adjustor to facilitate the claim process and evaluation.

AVHENG has experience with providing expert witness support and testimony in legal claims and working closely with counsel preparing documentation, expert reports, testing and technical evaluations, and providing technical expert advice. In the last 5 years, AVHENG consultants have been directly involved in the failure investigations of:



- Two unit-level major refinery explosions and fires
- Two polyethylene reactor furnace failures and unit-level damage assessments
- One extensive sulphur reactor furnace fire and failure
- One fired-heater fire
- One warm lime softener tank failure
- A 24-inch oil emulsion pipeline failure



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

Support services from AVHENG for these losses have varied from direct support providing root cause failure analysis, along with repair planning and future mitigation strategy, to subrogation investigations representing either the owner or the insurance company, including expert witness services and support.

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