

VHP Manway Leakage Investigation and Solution

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Through solid engineering application of ASME code and the diligent inspection and monitoring of the operating characteristics of the VHP boiler, the leaking manway issues have been resolved. The leaking manway issues were identified by site operations and maintenance. Upon identification of an issue systematic inspection was completed in order to understand the characteristics under which the issue was present. Once the characteristics were narrowed down the engineering investigation began. The investigation began as simple changes and quickly escalated when the finite element analysis identified that a larger issue may be at work.

As the engineering group at RAE Engineering continued investigating, the mandate was set by ATCO Power to fix this issue during the next unit outage. In the end extensive changes were made to the VHP man doors during the outage and results are still being monitored.