

Title (en)

WELLHEAD HIPS WITH AUTOMATIC TESTING AND SELF-DIAGNOSTICS

Title (de)

BOHRLOCHKOPFSTANGEN MIT AUTOMATISCHER PRÜFUNG UND SELBSTDIAGNOSE

Title (fr)

SYSTÈME HIPS POUR TÊTE DE PUITS AVEC TEST AUTOMATIQUE ET AUTODIAGNOSTIC

Publication

EP 2666096 A1 20131127 (EN)

Application

EP 12736989 A 20120119

Priority

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Abstract (en)

[origin: WO2012100044A1] A method for diagnostics of a high integrity protection system (HIPS) for protection of a pipeline downstream of a wellhead includes: monitoring for initiation of an automatic trip or manual safety shutdown or full shut-off test; determining the process safety time (PST) that elapses between the time at which the upstream pressure reached the trip setpoint and the time at which the upstream pressure reaches the maximum allowable piping pressure (MAPP) of the downstream pipeline; and verifying that the safety critical isolation valves stroked to the fully closed position within $\frac{1}{2}$ PST and that the downstream pressure did not exceed the MAPP. If the verification is successful, no action is required, whereas if the verification shows that either of those parameters are not met, then the HIPS signals an alarm to operators, and in the case of a manual safety shutdown or full shut-off test, resets the pressure trip setpoint to a lower level.

IPC 8 full level

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