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LIST OF SYMBOLS

m	Mass discharged in kg/s
C_d	Discharge coefficient (1.0 for gases)
M_w	Molecular weight in kg/kmol
T_g	Temperature of the vessel in K
P_{crit}	Critical pressure ratio
P	Ambient pressure Pa
P_g	Pressure of the vessel Pa
K	Isentropic expansion factor (C_p/C_v)
P_{final}	inal pressure (absolute - psia) = final pressure (psig) + 14.7
$P_{initial}$	Initial pressure (absolute - psia) = 14.7 psia if system depressurized
V_{system}	Volume of system (piping and launcher/receiver – feet ³)
T	Time take to reach final pressure (minutes)
P_{final}	Final pressure (absolute - psia) = final pressure (psig) + 14.7
m	Mass discharged in kg/s
C_d	Hole area in m ²
M_w	Molecular weight in kg/kmol
T_g	Temperature of the vessel in K
P_{crit}	Critical pressure ratio
P	Ambient pressure, Pascal
K	Isentropic expansion factor (C_p/C_v)

LIST OF ABBREVIATIONS

PESDVs	Pipeline Emergency Shutdown Valves
PSD	Process Shutdown
ESV	Emergency Shutdown Valve
GoT	Gulf of Thailand
CPP	Central Processing Platform
LQ	Living Quarters
WHP	Wellhead Platforms
CP	Compression Platform
API	American Petroleum Institute
RP	Recommended Practice
ESD	Emergency Shutdown
PIG	Pipeline Indicating Gauge
TSR	Temporary Safe Refuge
ISO	International Organization of Standards
ASME	American Society of Mechanical Engineers
UV	Ultraviolet
TSR	Temporary Safe Refuge
IR	Infrared
HC's	Hydrocarbons
SI	Statutory Instrument
CFR	Code of Federal
ISA	The Instrumentation, System and Automation Society
IEC	The International Electrotechnical Commission
SIL	Safety Integrity Level
JWC	Jakrawan Well Platform C
JCPP	Jakrawan Central Processing Platform
SWJ	Satun Well Platform J
EPC	Erawan Well Platform C
JWA	Jakrawan Well Platform A

LIST OF ABBREVIATIONS (continue)

FCPP	Funan Central Processing Platform
SWE	Satun Well Platform E
SCPP	Satun Central Processing Platform
UK	United Kingdom
PVST	partial valve stroke testing
UKOOA	United Kingdom Offshore Operators Association
PSIg	Pound per Squared-Inch gage
MMSCFD	Standard Million Cubic Feet per Day
PFD	failure on demand
MOL	Min Oil Line
SSIV	Sub Sea Isolation Valve
UKCS	United Kingdom Continental Shelf
FBR	Full Bore pipeline Rupture
BS	British Standard
MAOP	Maximum Allowable Operating Pressure
OIM	Offshore Installation Manager