

- NOTE:
1. ALL ELECTRICAL EQUIPMENT TO BE ATEX CERTIFIED.
 2. ALL WATER CYLINDERS SUPPLIED WITH VISUAL WATER LEVEL INDICATORS.
 3. FITTING TO BE 8MM PARKER A-LOK. SIZE OF TUBING (Ø16mm) ON THE FIRE SYSTEM IS NOT IN ACCORDANCE WITH THE CAD STANDARD AND THAT READER SHOULD PROCEED WITH ANY CHANGE OF MODIFICATION WITH GREAT CARE.
 4. ALL NONE COMPLIANT TUBING TO BE MARKED WITH RED BANDING.
 5. LABELS TO BE ATTACHED TO NONE COMPLIANT TUBING STATING THE SIZE AND WALL THICKNESS.
 6. PRESSURE TRANSMITTER CONNECTION TO BE HASTELLOY C276.
 7. SYSTEM DESIGNED TO BE OPERATED ELECTRICALLY (240V, 230V) AT SOLENOID VALVE OR MANUALLY.
 8. (4 OFF) SPRAY HEADS TYPE HI-FOG 45 1MC 8MB 1100.
 9. 50 LTR NITROGEN BOTTLE AT 200 BAR. N.C. POWER TO ENERGISE (NITROGEN RELEASED WHEN ENERGISED).
 10. 3 x 50 LTR WATER BOTTLE. EACH WATER BOTTLE BANK TO BE SUPPLIED WITH A 300N LOAD CELL ON A FLOATING SUPPORT FRAME.
 11. SEE DRAWING MC2-PID004 & 84-001 FOR DETAILS OF TAG DETECTION AND CONTROLS (WATER MIST RELEASE, STATUS LIGHTS).
 12. WATER MIST BOTTLES CABINET TO BE SUPPLIED WITH A 500W HEATER TO MAINTAIN INTERNAL TEMPERATURE AT 5°C.
 13. OPERATIONAL SYSTEM PRESSURE AT THE DISCHARGE HEAD MIN 75 BAR.
 14. EACH BANK SIZED TO PROVIDE A 10 MINUTE DISCHARGE.
 15. DISCHARGE VALVE IS LATCHING.
 16. FOR CONTROL PHILOSOPHY SEE DOCUMENT GEAD-EC2-001.
 17. FOR RELATED LOCAL INSTRUMENTS SEE DRAWING N° GEAD-PID004.

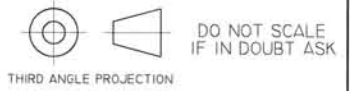
WITH MANUAL RELEASE

06	TAG N°S MODIFIED	A.VAREY	18/2012
05	TAG N°S MODIFIED	A.VAREY	18/2012
04	NOTE 5 MODIFIED. WATER BOTTLE WEIGHT TRANSMITTER TAG MODIFIED. SOLENOID VALVE TAG MODIFIED. NOTE 3 ADDED TO DRAWING. NOTE 4 ADDED TO DRAWING.	A.VAREY	18/2012
03	TAG N°S MODIFIED. NOTE 12 MODIFIED. NOTE 13 ADDED. NOTE 14 ADDED. NOTE 15 ADDED. PRESSURE TRANSMITTER REPOSITIONED.	A.VAREY	18/2012
02	NOTES 9, 10, 11, 12 ADDED. NOTES 3 & 8 MODIFIED. TAG NO'S ADDED. 6MO TUBING IDENTIFIED. FGS SYMBOLS ADDED.	A.VAREY	18/2012

No.	ALTERATIONS	CHK'D	DATE
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NOTES - MECHANICAL

TOLERANCES:
GENERAL TOLERANCE + / - 5mm
FABRICATION + / - 3mm
HOLE CENTRES + / - 1mm
OTHER TOLERANCES AS STATED WHERE REQUIRED



Nexen Petroleum UK Limited Golden Eagle Area Development			
VENDOR: Broadcrown			
EQUIPMENT TITLE: ESSENTIAL SERVICES GENERATOR			
EQUIPMENT TAG NO(S): X-7301			
GEAD Document Number			
Purchase Order Number	Doc Type Code	Seq. No.	Rev. DATE
168397-200-PO-3279	MC2	009	06 03/09/2012
INCLUDES DOCUMENT CODES: TOTAL SHEETS: 01			
<input checked="" type="checkbox"/>	F	Final (accepted) - manufacturing may proceed	
<input type="checkbox"/>	A	Qualified Release - revise and re-submit! Manufacturing may proceed subject to incorporation of comments	
<input type="checkbox"/>	R	Rejected - revise and re-submit! Manufacturing may not proceed	
<input type="checkbox"/>	I	Accepted for information only	
Review of Vendor documents does not relieve Vendor of the responsibility for correctness under the Purchase Order. Permission to proceed does not constitute acceptance of design, detail and calculations, test methods or materials developed or selected by the Vendor and does not relieve the Vendor from full compliance with the Purchase Order or any other obligations, nor detract from any of the Purchaser's rights.			
Engineer: <i>[Signature]</i>		Date: 6 SEP 12	

TITLE: WATER MIST FIRE SUPPRESSION SYSTEM P&ID	
CLIENT: NEXEN PETROLEUM UK LIMITED	
SITE: GOLDEN EAGLE DEVELOPMENT	
W.O. No.: 565911	ENGINEER: N.RUDGLEY
TYPE: CAT3512	DRAWN BY: N.RUDGLEY
SCALE: N/A	DATE: 02/01/2012
TOTAL No. OF SHEETS (1 - 999) 01	
DRAWING NO. GEAD-PID009	
ISSUE 06	