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NOTES
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| 1.  | PIPING TO BE INSTALLED WITH HIGH POINT VENT AND LOW POINT DRAIN. PIPING TO HAVE NO STAGNANT REGIONS OR DEAD LEGS.   |
| 2.  | AIR TIGHT VALVES  |
| 3.  | LEVEL OF UPPER NOZZLE OF LT-42116A SHALL BE SLIGHTLY ABOVE TOP OF VESSEL UPPER PLATE.   |
| 4.  | CAPILLARY INSTRUMENT REMOTE SEAL. DIAPHRAGM SEAL TO BE SUPPLIED WITH FLUSHING RING.   |
| 5.  | DELETED.  |
| 6.  | INJECTION POINT INCLUDES QUILL.   |
| 7.  | DELETED.  |
| 8.  | INDIVIDUAL SIGNAL IS SENT TO UCP FOR CALCULATION AND TOTALISED FLOW FG1-41044 FROM ALL UF FILTERS TO ICSS (HARDWIRED).  |
| 9.  | REFER TO P&ID LEGEND 168397-100-PR-P1-0001-01 TO 0012-01.   |
| 10. | ALL MANUAL VALVES CAN BE LOCKED WITH PAD LOCK OR CAR SEAL.  |
| 11. | THE PRESSURE DROP SHOWN IS CORRECTED ACCORDING TO TEMPERATURE AND FLOW (NORMALIZED). ON HIGH-OP (HW) UF FILTER IS SET TO NOT AVAILABLE AND OPERATOR TO INITIATE CIP SEQUENCE. |
| 12. | PSV INSTALLED ON PIPING TO SECURE LITTLE OR NO AIR ENTRAPMENT.  |
| 13. | REFER TO P&ID 168397-200-PO-3363-MC2-012 FOR DETAILS.   |
| 14. | DELETED.  |
| 15. | NO BACK PRESSURE DOWNSTREAM PSV AS GOOSENECK IS OPEN TO ATM.  |
| 16. | PRESSURE AT TP4 DURING DRAINING IS 0.7 BARG. WATER IS VENTED THROUGH GOOSENECK DURING DRAINING.   |
| 17. | ALL ON/OFF VALVES ARE PROVIDED WITH LIMIT SWITCHES.   |
| 18. | CIP VALVE SUPPLIED WITH MECHANICAL MAXIMUM STOP.  |
| 19. | REFER TO P&ID NO. 168397-100-PR-P1-0012-02 FOR SAMPLE CONNECTION DETAILS.   |
| 20. | THE FLOW CONTROL SWITCHES TO PRESSURE CONTROL. WHEN THE PRESSURE REACHES 7.8BAR WITH THE VESSEL IN NORMAL OPERATION.  |
| 21. | MIN. SLOPE = 1:100<br>   |
- SITEMAPS DRW:**      **SITEMAPS REV:**

09/09/2013	AS-BUILT	VPK	DC	MM	CB
05/07/2017	AS-BUILT FOR GMOC0096	TM <td>TF <td>JL <td>TR</td> </td></td>	TF <td>JL <td>TR</td> </td>	JL <td>TR</td>	TR
Z4 10/01/20	AS-BUILT FOR GMOC0416	NE <td>TF <td>JL <td>TR</td> </td></td>	TF <td>JL <td>TR</td> </td>	JL <td>TR</td>	TR
Z3 30/03/18	AS-BUILT FOR GMOC0108	LM	JL <td>JL <td>TR</td> </td>	JL <td>TR</td>	TR
Z2 25/10/17	AS-BUILT FOR GMOC0096	LM	SB	SB	TR
Z1 26/10/16	AD-HOC AS-BUILT	LM	AH	AH	RA

REV    DATE                  DESCRIPTION                  DRN    CHK    APP    CLT
- Nexen Petroleum (U.K.) Limited**  
**Golden Eagle Area Development**

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VENDOR : SIEMENS (SIEMENS AG FW)

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EQUIPMENT TITLE: PIPING & INSTRUMENT DIAGRAM (P&ID)  
 ULTRAFILTRATION MEMBRANE UNIT

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EQUIPMENT TAG NO(S) : F-4202 D

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HEAD VERION Document Number

Purchase Order Number	Doc Type	Seq. No.	Rev.	DATE
168597-200-PO-3363 - MC2	-	MC2 - 003 - 04	Z5	07/10/12
- INCLUDES DOCUMENT CODES :                                  TOTAL SHEETS : 4 OF 7

F	Final (accepted) – manufacturing may proceed.
Q	Qualified Release – revise and re-submit. Manufacturing may proceed subject to incorporation of comments.
R	Rejector – revise and re-submit. Manufacturing may not proceed.
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 method 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 or requirements set forth in the Purchase Order.

<p align="center"><b>Nexen Petroleum (U.K.) Limited</b>  <b>Golden Eagle Area Development</b></p>						
<p align="center"><b>VENDOR : SIEMENS (AEMC FW)</b></p>						
<p align="center"><b>EQUIPMENT TITLE : PIPING &amp; INSTRUMENT DRAWING (P&amp;ID)</b>  <b>ULTRALTRAFILTRATION MEMBRANE UNIT</b></p>						
<p align="center"><b>EQUIPMENT TAG NO(S) : F-4202 D</b></p>						
<p align="center"><b>GEAD Vendor Document Number</b></p>						
<b>Purchase Order Number</b>	<b>Doc Code</b>	<b>Seq No</b>	<b>Sh. No</b>	<b>No.</b>	<b>Rev.</b>	<b>DATE</b>
168397-200 PO-3363	MC2	-003	-04	Z5	07/10/02	
<b>INCLUDES DOCUMENT CODES :</b>				<b>TOTAL SHEETS : 14</b>		
<p><b>F</b> Final (accepted) – manufacturing may proceed.</p>						
<p><b>A</b> Qualified Release – review and re-submit. Manufacturing may proceed subject to incorporation of comments.</p>						
<p><b>R</b> Rejected – review and re-submit. Manufacturing may not proceed.</p>						
<p><b>I</b> Accepted for information only.</p>						
<p>Review of Vendor documents does not relieve Vendor of the responsibility for correctness of information. Permission to proceed does not constitute acceptance of design, detail and calculations, test method or materials developed or selected by the Vendor and does not relieve the Vendor from full compliance with the Purchase order and any other obligations, nor detract from any of the Purchaser's rights.</p>						
<b>Engineer :</b>				<b>Date:</b>		

Engineer :	Date:
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