

TAG NO	B-4230A/B, BM-4230A/B
DESCRIPTION	AIR SCOUR BLOWERS 2x100%
MEDIUM	AIR
CAPACITY	900 Sm ³ /h
SUCTION TEMPERATURE	°C -7.6 / 23.5
DISCHARGE TEMPERATURE	°C 0 - 70 MAX
OPERATING PRESSURE	bar(g) 0.5
DESIGN TEMPERATURE	°C -7.6/100
DESIGN PRESSURE	bar(g) 1.5
MATERIAL BLOWERS	BRONZE AB2 WITH K-500 MONEL SHAFTS
ABSORBED/RATED POWER	kW 18/22
DRIVER	E-MOTOR/EE d/e
MATERIAL MOTOR	CAST IRON

CONTINUED FROM
P&ID SHEET 1

NOTES 1, 7, 9, 10, 18, 19

TOTAL FLOW FOR CALCULATION
OF CHLORINE SCAVENGER
INJECTION RATE
PY-4201-01
TO FFIC 52051

NEXEN
SIEMENS

TAG NO	SERVICE	I/O TYPE & LOCATION
ICSS TO UCP signals		
XY - 42109	SRP SHUTDOWN	PSD DO NIS
XMIR - 42185	Chl-Sca Pump Running	PCS DO NIS
FFIC-52051-1	Chlorine Scavenger Flow(ratio)	PCS AO NIS
XMIR - 42187	Scale Inh. Pump Running	PCS DO NIS
FFIC-52037-1	Scale Inhibitor Flow (ratio)	PCS AO NIS
XMIR-42186	Biocide Pump Running	PCS DO NIS
XS - 42189	Dump SRP Trains	PSD DO NIS
UCP TO ICSS SIGNALS		
UA - 42101	SRP Event / Attention Alarm	PCS DI NIS
UA - 42107	SRP Confirmed shutdown	PSD DI NIS
XMC - 42185	SRP Start Chl-Sca Pump	PCS DI NIS
FQI - 41044	SRP Total Seawater Feed	PCS AI NIS
XMC - 42187	SRP Start Scale Inh Pump	PCS DI NIS
FI - 42163	SRP Booster PMP Discharge	PCS AI NIS
XMC - 42186	SRP Start Biocide Pump	PCS DI NIS
UA - 42601	BN Rack Common Vib/Temp Alarm	PCS DI NIS
UA - 42602	BN Rack Healthy (OK)	PCS DI NIS
UA - 42603	UCP Common Fault Alarm	PCS DI NIS
UCP TO MCC SIGNALS		
XMCB - 42281A	SRP Start Blower Motor A	UCP DO NIS
XMCB - 42281A	SRP Stop Blower Motor A	UCP DO NIS
XMCB - 42281B	SRP Start Blower Motor B	UCP DO NIS
XMCB - 42281B	SRP Stop Blower Motor B	UCP DO NIS
XMCB - 42141A	SRP Start Booster Pump A	UCP DO NIS
XMCB - 42141A	SRP Stop Booster Pump A	UCP DO NIS
XMCB - 42141B	SRP Start Booster Pump B	UCP DO NIS
XMCB - 42141B	SRP Stop Booster Pump B	UCP DO NIS
XMCB - 42223A	SRP Start CIP UF PMP A	UCP DO NIS
XMCB - 42223A	SRP Stop CIP UF PMP A	UCP DO NIS
XMCB - 42223B	SRP Start CIP UF PMP B	UCP DO NIS
XMCB - 42223B	SRP Stop CIP UF PMP B	UCP DO NIS
XMCB - 42231	SRP Start CIP SR PMP	UCP DO NIS
XMCB - 42231	SRP Stop CIP SR PMP	UCP DO NIS
XMCB - 52195A	SRP Start Hypochl. PMP A	UCP DO NIS
XMCB - 52195A	SRP Stop Hypochl. PMP A	UCP DO NIS
XMCB - 52195B	SRP Start Hypochl. PMP B	UCP DO NIS
XMCB - 52195B	SRP Stop Hypochl. PMP B	UCP DO NIS
XMCB - 42241	SRP Start CIP HTR H-4206	UCP DO NIS
XMCB - 42241	SRP Stop CIP HTR H-4206	UCP DO NIS
MCC TO UCP SIGNALS		
XMIA - 42281A	Blower Motor A Available	UCP DI NIS
XMIR - 42281A	Blower Motor A Running	UCP DI NIS
XMIA - 42281B	Blower Motor B Available	UCP DI NIS
XMIR - 42281B	Blower Motor B Running	UCP DI NIS
XMIA - 42141A	Booster Pump A Available	UCP DI NIS
XMIR - 42141A	Booster Pump A Running	UCP DI NIS
XMIA - 42141B	Booster Pump B Available	UCP DI NIS
XMIR - 42141B	Booster Pump B Running	UCP DI NIS
XMIA - 42223A	CIP UF PMP A Available	UCP DI NIS
XMIR - 42223A	CIP UF PMP A Running	UCP DI NIS
XMIA - 42223B	CIP UF PMP B Available	UCP DI NIS
XMIR - 42223B	CIP UF PMP B Running	UCP DI NIS
XMIA - 42231	CIP SR PMP Available	UCP DI NIS
XMIR - 42231	CIP SR PMP Running	UCP DI NIS
XMIA - 52195A	Hypochl. PMP A Available	UCP DI NIS
XMIR - 52195A	Hypochl. PMP A Running	UCP DI NIS
XMIA - 52195B	Hypochl. PMP B Available	UCP DI NIS
XMIR - 52195B	Hypochl. PMP B Running	UCP DI NIS
IT - 42141A	SRP Boost PMP A Current	UCP AI NIS
IT - 42141B	SRP Boost PMP B Current	UCP AI NIS
XHIA - 42241	SRP CIP HTR Available	UCP DI NIS
XHIR - 42241	SRP CIP HTR Running	UCP DI NIS
FROM FIELD TO MCC		
TSHH-42241-2	Heater H-4206 trip	

NOTES	
1	PIPING TO BE INSTALLED WITH HIGH POINT VENT AND LOW POINT DRAIN. PIPING TO HAVE NO STAGNANT REGIONS OR DEAD LEGS
2	DETAILS FOR SINGLE UF UNIT REF. ACCOMPANYING P&ID 168397-200-PO-3363 MC2 003 SHEETS 3, 4, 7
3	DELETED
4	BLOWER FOR AIR SCOURING OF UF MEMBRANES
5	VENT TO ATMOSPHERE AWAY FROM PERSONNEL
6	HH TRIP STOPS THE RUNNING BLOWER
7	DILUTED CLEANING FLUID LINES ARE GIVEN CODE SW-42-E1B AND CC-42-S1D
8	DELETED
9	REFERENCE TO P&ID LEGEND 168397-100-PR-0001-01 TO 0012-01
10	ALL MANUAL VALVES CAN BE LOCKED WITH PAD LOCK OR CAR SEAL
11	LOCAL EMERGENCY STOP. HARDWIRED START AND STOP COMMANDS FROM UCP TO MCC (CLIENT SUPPLY).
12	REFERENCE TABLE 1 BESIDE FOR HARDWIRED INTERFACE SIGNALS TO MCC / ICSS
13	TITANIUM TUBING GRADE 2 (TG2)
14	AUTO START OF STAND BY BLOWER ON TRIP OF DUTY BLOWER MOTOR
15	TACHOMETER WITH LOCAL INDICATOR INCLUDED
16	SAMPLE POINT TAKE-OFF INCLUDES QUILL
17	REFERENCE TO 168397-200-PO-3363-MB1-006 FOR DETAILS
18	CIP INTERCONNECTING LINES TO BE SLOPED INTO THE UF PACKAGE
19	ALL ON/OFF VALVES PROVIDED WITH LIMIT SWITCHES
20	TAHH IS SET TO 60C. ALARM SHOULD NOT OCCUR DUE TO THE SHORT OPERATION TIME OF BLOWERS AND LARGE HEAT CAPACITY IN PIPING.
21	IN CASE OF MAINTENANCE PRESS STOP BOTTOM ON BOTH BLOWERS INSERT BLIND FLANGE DOWNSTREAM NRV. RELEASE THE BUTTON ON THE BLOWER THAT CAN BE USED AFTER BLIND FLANGE IS INSERTED.
22	MIN SLOPE 1:100
23	AUTO DRAIN VALVE

SIEMENS DRW:		51PO-03733.410-H-002	SIEMENS REV:		10
10	09.07.2013	AS-BUILT	VM	DC	MM CB
09	07.11.2012	RE-ISSUED FOR CONSTRUCTION	VM	DC	MM CB
Z4	27/8/13	AS-BUILT FOR GMOC03156	LM	AC	AC TR
Z3	11.12.2017	AS-BUILT FOR GMOC0096	LM	AC	AC TR
Z2	25.10.2017	AS-BUILT FOR GMOC0096	LM	SB	SB TR
Z1	26.10.2016	AD-HOC AS-BUILT	LM	AH	AH RA
REV	DATE	DESCRIPTION	DRN	CHK	APP CLT

Nexen Petroleum (U.K.) Limited Golden Eagle Area Development						
VENDOR : SIEMENS (WORLEY PARSONS)						
EQUIPMENT TITLE: PIPING & INSTRUMENT DIAGRAM (P&ID) ULTRAFILTRATION HEADER						
EQUIPMENT TAG NO(S) : F-4202C/D/G; B-4230A/B						
GEAD Vendor Document Number						
Purchase Order Number		Doc Type	Seq. No	Sh. No	Rev.	DATE
168397-200-PO-3363		MC2	002	02	Z4	27/8/13
INCLUDES DOCUMENT CODES :				TOTAL SHEETS : 2 OF 2		
F Final (accepted) - manufacturing may proceed.						
A Qualified Release - revise and re-submit. Manufacturing may proceed subject to incorporation of comments.						
R Rejected - 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 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 :					Date:	

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