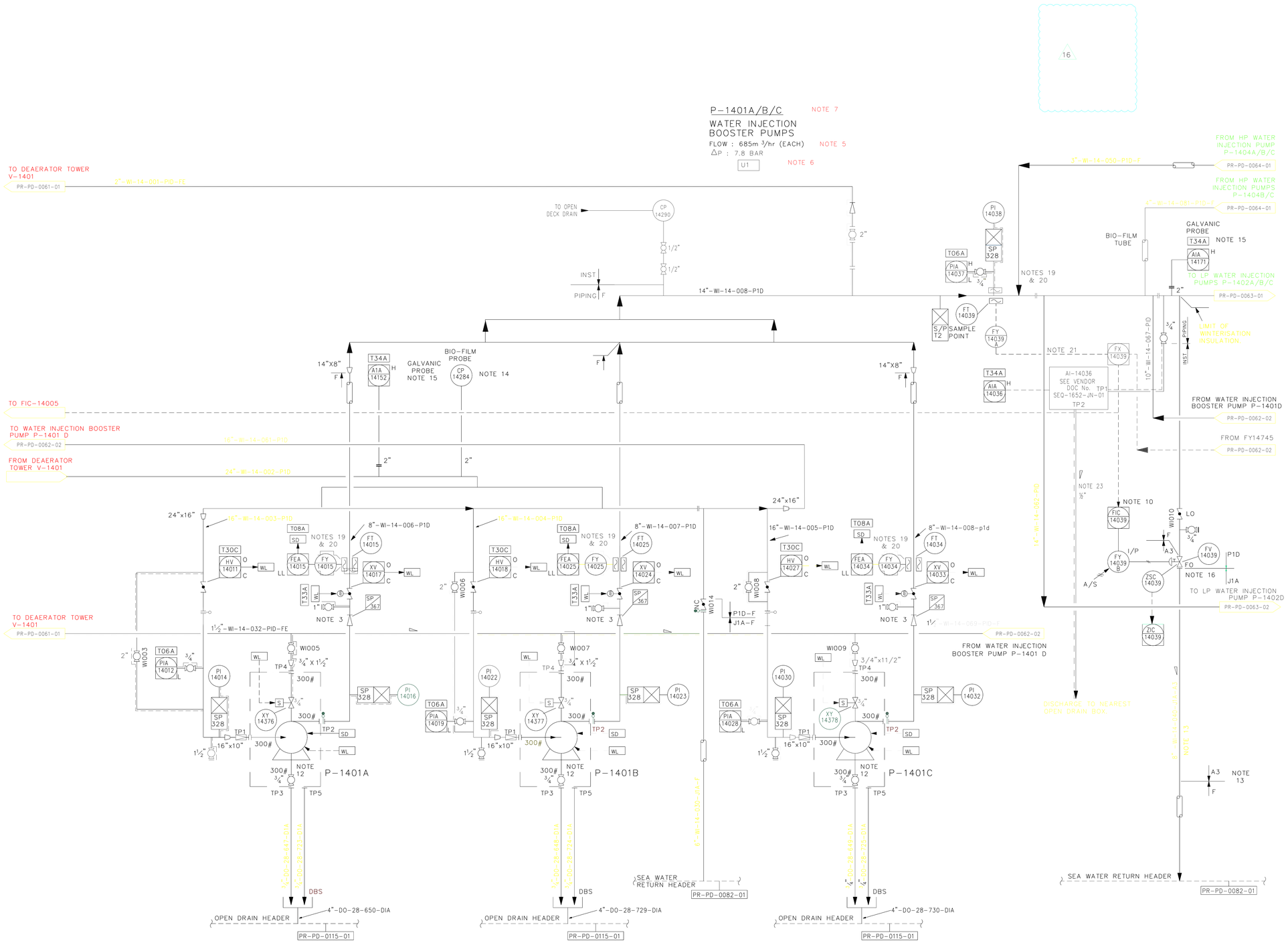

NOTES

1. ROTAMETER – LOCATE IN VERTICAL WITH UPWARD FLOW.
2. OFF SPECIFICATION WATER (OXYGEN LEVEL) TO BE DUMPED BY MANUAL OVERRIDE OF FIC-14039.
3. NON-SLAM TYPE CHECK VALVE REQUIRED.
4. AVOID DEAD LEGS IN ENTIRE WATER INJECTION SYSTEM.
5. SYSTEM IS DESIGNED TO PRODUCE 2650 m^3/hr (400,000BPD) OF INJECTION QUALITY SEA WATER AT 326 BARG AT THE HP PUMPS DISCHARGE.
6. OVERALL Δ P ACROSS THE BOOSTER PUMPS (P-1401A/B/C) AND WATER INJECTION PUMPS (P-1402A/B/C) IS 263.5 BAR.
7. 3x25% MOTOR DRIVEN WATER INJECTION BOOSTER PUMPS TO BE SUPPLIED BY THE SUPPLIER OF WATER INJECTION PUMP (P-1402A/B/C).
8. LINE SIZING IS BASED ON DUPLEX STAINLESS STEEL PIPING MATERIAL SELECTION.
9. DELETED.
10. FIC-14039 MINIMUM SETPOINT IS DEPENDENT ON NUMBER OF BOOSTER PUMPS RUNNING.
11. DELETED.
12. FOR SELLER P & I.D'S SEE WEIR PUMPS Ltd. DRAWING NUMBER A33350P-544/02.
13. ACOUSTIC INSULATION ON LINE ABOVE DECK ONLY.REMAINDER OF LINE ,TO RETURN HEADER, TO BE WINTERISATION INSULATION.
14. BIOFILM PROBE ASSEMBLEY HAS 2" ACCESS FITTING (FLAREWELD TYPE). CONNECTION TO BE SUPPLIED BY INSTRUMENTS.
15. GALVANIC PROBE ASSEMBLEY HAS 2" ACCESS FITTING (FLAREWELD TYPE). CONNECTION TO BE SUPPLIED BY INSTRUMENTS.
16. LOCAL MILLI-AMPERE INDICATOR TO BE INSTALLED ADJACENT TO VALVE.
17. DELETED
18. DELETED.
19. INSTRUMENT IS A NON-INTRUSIVE ULTRASONIC FLOWMETER.
20. 'FY' IS WITHIN ASSOCIATED FLOWCOMPUTER IN UQ LER AND CONVERTS FREQUENCY SIGNAL TO CURRENT.
21. FX 14039 SUMS FT 14039 (FLOW FROM BOOSTER PUMPS P 1401A/B & C) WITH FT 14745 (FLOW FROM BOOSTER PUMP P 1401D) TO GIVE TOTAL FLOW THROUGH BOOSTER PUMPS.
22. DELETED.
23. INLET TUBING AND DRAINS ARE 6% Mo AND HEAT TRACED.

ONLY ACTIVATED TRACE HEATING IS SHOWN ON P & ID, ALL OTHER INSTALLED TRACE HEATING IS NOT ACTIVATED AND NOT SHOWN ON P & ID.

FOR APPROVAL SIGNATURES SEE ARCHIVED DRAWING AT REV 0

REFERENCE DRAWINGS

DRG.No.	REV	TITLE
SCOTT-FW-0000-PR-PDD-0002-01	0	P&ID WATER INJECTION BOOSTER PUMPS (DESTRUCT)
FW-0000-PR-DP-5000 (ARN 1892)		
FW-0000-PR-DP-5000 (ARN 2342)		
FW-0000-PR-DP-5000 (ARN 2315)		
DCP 5000-AH 744 ARN 3930 (EP239)		
DCP 5000-AH 755 ARN 6347 (EP238)		
DCP 5000-729 ARN 6398 (EP.JD140)		
DCP 5000-AH1054		
DCP 470		

REV	REASON FOR ISSUE	DATE	DRN.	CKD.	BY ENG	ENG CKD.	I.E. APP'D	NEXEN APP'D
11	AS COMMISSIONED	28/4/94	CW	RM			KJH	
3	REVISED TO LATEST INFORMATION	10/5/93						
2	REVISED FOR CONSTRUCTION.	10/1/92						
1	REVISED FOR CONSTRUCTION.	9/10/91	PMH					
0	APPROVED FOR CONSTRUCTION	7/6/91		GC	RT	JS	BAR	KTL
GD	APPROVED FOR FINAL DESIGN	6/3/91	TER	JS	RT	JS	JHC	KTL

REV	REASON FOR ISSUE	DATE	DRN.	CKD.	BY ENG	ENG CKD.	I.E. APP'D	NEXEN APP'D
FD	REVISED FOR DESIGN	17.12.90	GM	JS	RT	JS	JHC	
16	AD-HOC AS-BUILT	14.01.15	FL	RB	RB	JM	AH	TR
15	AS-BUILT PER SEQ1652	28.11.14	LB	PG	PG	AH	AH	TR
14	AS-BUILT TO INCLUDE DO-378-14	24.03.98	DR	GD / KN				
13	AS-BUILT FOR SWIU			CS				
12	AS-BUILT TO INCLUDE DO-254	21.6.95	WN	GWM				

nexen
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Aberdeen,AB12 3LE.
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THIS IS A C.A.D. PRODUCED DRAWING AND SHOULD NOT BE MANUALLY MODIFIED

SCOTT

amec

TITLE

PIPING & INSTRUMENT DIAGRAM
WATER INJECTION BOOSTER PUMPS

DRAWING No.

SCOTT-FW-0000-PR-PD-0062-01 | 16 | NONE

PROJECT | ORIG | AREA/MOD | DISC | TYPE | SEQ. No. | SHT. | REV | SCALE