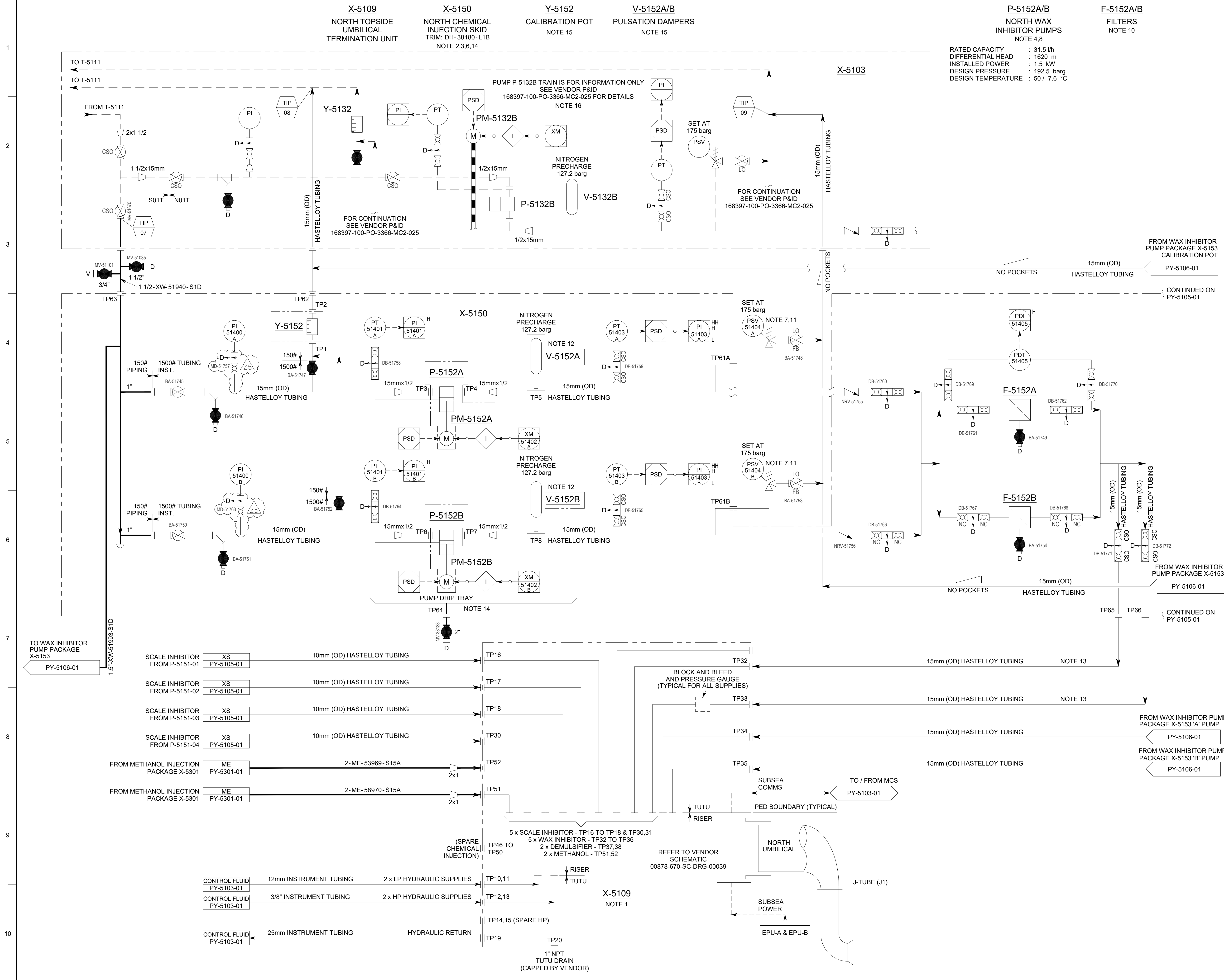


AWAITING TA APPROVAL



## NOTES

REFER TO LEGEND SHEETS 168397-100-PR-PI-0001 TO 0012 FOR  
DETAILS OF PIPING CLASS, INSULATION, EQUIPMENT TYPES,  
INSTRUMENT DETAILS, VALVES AND SPECIFIC HOOK-UP  
REQUIREMENTS.

- PACKAGE SKID SPECIFIED AND SUPPLIED BY NEXEN UK LIMITED  
THIS IS PART OF THE SCOPE FOR THE NORTH SUBSEA  
PRODUCTION AREA.
- ALL PIPE TO BE SEAMLESS 316LSS. ALL TUBING TO BE  
HASTELLOY C276 ASTM B622.
- TUBE FITTINGS TO BE TWIN FERRULE COMPRESSION TYPE  
'A-LOK', HASTELLOY C276.
- PUMPS TO BE FITTED WITH MANUAL STROKE ADJUSTMENT  
FROM 0-100% OF DESIGN DOSING RATE.
- DELETED.
- ALL VENTS AND BLEEDS MUST BE FITTED WITH PLUGS.
- INLET TO PSV TO RISE CONTINUOUSLY WITH NO POCKETS,  
OUTLET FROM PSV TO FALL CONTINUOUSLY TO TANK T-5111 ON  
X-103. TOTAL EQUIVALENT LENGTH TO PSV NOT TO EXCEED  
15m.
- PUMP INTERNAL RELIEF VALVES SET AT 192.5 barg.
- ALL 15mm TUBING AND FITTING TO BE COLOUR CODED FLAME  
RED (RAL 3000).
- 3 MICRONS.
- PSV-51404A/B TO BE LOCATED ABOVE CHEMICAL STORAGE  
TANK T-5111 ON X-5103.
- NITROGEN PRECHARGE PRESSURE TO BE SET IN ACCORDANCE  
WITH DELIVERY PRESSURE REQUIREMENTS. PRESSURE  
INDICATED IS FOR DELIVERY PRESSURE OF 159 barg.
- POTENTIAL LEAK PATHS DOWNSTREAM OF PUMPS P-5152A/B  
OPERATING AT 2 barg OR HIGHER TO HAVE MIST PREVENTION  
DEVICES WHERE INDICATED IN 168397-40-SA-RP-0009.
- P-5151 SHOWN ON 168397-100-PR-PSY-5105-01 IS ALSO LOCATED  
ON X-5150 AND SHARES A COMMON DRIP TRAY.
- PULSATION DAMPERS AND CALIBRATION POT SUPPLIED BY  
PUMP VENDOR.
- SECTION OF VENDOR P&ID PROVIDED IN ORDER TO SHOW  
TIE-IN LOCATIONS FOR NORTH WAX INHIBITOR PUMPS ON  
X-5103.

## ABBREVIATIONS

EPU = ELECTRICAL POWER UNIT  
MCS = MASTER CONTROL STATION (SUBSEA)  
TUTU = TOPSIDE UMBILICAL TERMINATION UNIT

Z3	29/11/2021	AS-BUILT FOR GIC0107	TPK	TF	JL	TR
Z2	24/05/2017	AS BUILT AS PER GIC0036	LM	RS	RS	TR
Z1	25/07/2014	AS BUILT INC. RN 03 - 04	JG	JM	JG SH	JM
1H	28/09/2012	REVISED FOR CONSTRUCTION INC. RN 01-02	BM	JAS	RJ IV	SA
Z5	13/09/2023	AS-BUILT FOR GIC0125	SD	TF	TF	
Z4	13/01/2023	AS-BUILT FOR GMOC0614	TPK	TF	TF	TR
REV	DATE	DESCRIPTION	DRN	CHK	APP	CLT



TITLE: PIPING & INSTRUMENT DIAGRAM  
NORTH CHEMICAL INJECTION  
AND TOPSIDES / SUBSEA INTERFACE

SCALE (A1): NTS

ASSAI No: PR18PU0011

CONTRACT No: 168397

CLIENT CONTRACT No: GEA-CT -CON-00808

168397-100-PR-PY-5104-01

REV  
Z5