




1. DOOR TO HAVE QUICK OPENING BAND LOCK CLOSURE WITH PRESSURE INTERLOCK
2. LOW RANGE PRESSURE GAUGE TO BE VISIBLE FROM PIG LAUNCHER DOOR
3. HIGH RANGE PRESSURE GAUGE TO BE VISIBLE FROM PIG LAUNCHER DOOR
4. NON INTRUSIVE TYPE PIG INDICATOR
5. PIGGABLE VALVE
6. TO BE LOCATED AT LOW POINT. PIPING TO BE SELF DRAINING TO THIS POINT
7. VENT CONNECTIONS TO BE AT BOTH ENDS OF LAUNCHER TO DEPRESSURE BOTH SIDES OF PIG.
8. DELETED.
9. PSV OUTLET PIPING TO BE HEAT TRACED AND INSULATED TO HIGH POINT.
10. FOR INSTALLING CORROSION PROBE, FREE AREA OF
1.0 M DIAMETER BY 2.0 M ABOVE PIPE TOP SHALL
BE PROVIDED.
11. PIPING TO PROVIDE 3D BENDS FROM OUTLET OF PIG LAUNCHER TO TOP OF RISER.
12. REMOVABLE SPOOL FOR POSITIVE VESSEL ISOLATION.
13. DELETED.
14. PI TO BE VISIBLE FROM HY-4104-1.
15. DESIGN PRESSURE AND DESIGN TEMPERATURE ARE NOT CO-INCIDENT.
16. DELETED.
17. SPOOL TO BE USED ONLY DURING FLUSHING PIPELINE WITH TREATED SEAWATER.
18. PROVIDE PROVISION FOR PARTIAL STROKE TEST.
19. DELETED.
20. DELETED.
21. VALVE TO HAVE MULTI-STAGE TRIM DUE TO LARGE Δ P.
22. DELETED.
23. PIPING TO PROVIDE ADEQUATE STRUCTURAL SUPPORT TO PREVENT EXCESSIVE VIBRATION.
24. API WING HAS BEEN UTILIZED BECAUSE IT PROVIDES SUFFICIENT WALL THICKNESS TO INCLUDE 6 mm CORROSION ALLOWANCE.

 = WHP-B MODIFICATION SCOPE

DEPARTMENT	INITIAL
PIPING	
INSTRUMENTATION	
MECHANICAL	
ELECTRICAL	

			
CUU LONG JOINT OPERATING COMPANY			
		NIPPON STEEL ENGINEERING CO., LTD. PT NIPPON STEEL CONSTRUCTION INDONESIA	
			
SU TU NAU BLOCK 15-1, OFFSHORE VIETNAM PRELIMINARY ENGINEERING SERVICES			
FACILITY : Su Tu Den Northeast			
DRAWING TITLE : PIPING AND INSTRUMENTATION DIAGRAM WHP-B PIG LAUNCHER			
SCALE NTS	DRAWING No. 2006-4129-01-0112		REV B