PRESSURE TEST INVESTIGATION REPORT	
Section	**Details**
Customer	Cape East Limited Company (WLL), Qatar
Product	Blast Hose Assembly
Date	
Reference	Pressure leakage observed during hose pressure testing at RLIC yard
Reported Issue	Leakage observed from hose end fitting during pressure testing.

D2 – Problem Definition

Item	Description
Problem Reported	Pressure leakage observed from hose end fitting during testing.
Test Location	Customer Yard (RLIC)
Observation	Pressure loss occurred at coupling connection area.
Customer Request	Clarification regarding source of leakage and hose performance.
	

D3 – Investigation

Item	Findings
Visual Inspection	Test setup and hose assembly reviewed.
Hose Body	No leakage observed through hose wall or hose construction.
Coupling Arrangement	Coupling used during testing found to be incompatible with supplied hose fitting.
Connection Area	Leakage originated from coupling interface.

D4 – Root Cause Analysis

Technical Assessment

Parameter	Assessment
Hose Condition	Satisfactory
Inner Tube	No leakage detected
Reinforcement Layer	No damage detected
Hose Cover	No defects observed
Coupling Compatibility	Not suitable
Leakage Source	Coupling connection area
Root Cause	Use of incorrect coupling

D5 – Corrective Actions

Action No.	Corrective Action
1	Remove existing coupling arrangement.
2	Install correct approved coupling.
	
3	Verify proper seating of coupling and fitting.
4	Perform pressure test using approved coupling system.
5	Record and verify test results.

D6 – Preventive Actions

Action No.	Preventive Action
1	Use only approved couplings for blast hose installation.
2	Verify coupling compatibility before testing.
3	Follow manufacturer installation procedures.
4	Inspect all fittings before pressure testing.
5	Ensure proper sealing arrangement is used.

D7 – Verification

Item	Verification Method
Corrective Action Verification	Repeat pressure test with approved coupling.
Acceptance Criteria	No leakage from coupling connection.
Result	To be verified after retesting.

D8 – Conclusion

Item	Conclusion
Root Cause	Incorrect coupling used during pressure testing.
Hose Condition	Hose found structurally sound.
Leakage Source	Coupling connection area.
Responsibility	Leakage caused by incompatible coupling arrangement.
Recommendation	Install correct coupling and repeat pressure test.

Final Statement

The investigation concludes that the pressure leakage observed during testing was caused by the use of an incorrect and incompatible coupling arrangement. No evidence of hose failure or leakage through the hose body was identified. Installation of the correct approved coupling is required prior to retesting the hose assembly.

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