Proof Load Test

Minimum Frequency – Minimum of 4 common RC / 6 months as detailed in *Product Specification* & *Inspection and Test Plan.*

Notes:

i) Testing shall be in accordance with *Clause 8.5 AS/NZS 7000:2010 and relevant site Work Instructions.*
ii) Guidance on acceptance criteria is provided in *Clause 8.5.3 AS/NZS 7000:2010*
iii) Record average lateral deflection at 50% pervious proof load tests and ultimate load tests *(FOR_023_Ultimate Load Test) then determine the maximum deflection.*
iv) Record crack widths with corresponding distance from tip at each 10% load interval with the following *abbreviations: 0.15/3 = 0.15mm crack width located 3m from tip or H/L = hairline crack width (width less than 0.05mm feeler gauge)*
v) Record angular rotation: *Test load to be square to pole axis (angle 0) Mark +x to show load angled above pole tip or -x* angled below tip *(x = angle, deg)*
vi) Record lateral deflection at each 10% load interval then remove load to 0% and record permanent set (mm) & crack widths.
vii) The trolley position and lateral deflection of the pole should be taken at the same position as the ultimate load tests.

If non-conforming do the following:

a. Advise the designated quality coordinator of non-conformance and provide them with a copy of this form. – *NCR shall be raised*
b. The failed pole shall be tested to failure to determine ultimate test load and provide a new benchmark for subsequent proof load tests.

Pole Size *(Length / Working Load):*	Ultimate Test Load:	kN
Drawing No.:	Moment arm:	mm
Date Cast:	Distance – *Tip to centre of load*	mm
Test Date:	Distance – *Butt to centre of top jaw*	mm
Pole No.:	Distance – *Butt to centre of bottom jaw*	mm
Customer:	Jaw spacing	mm
Specification:	Steam (*Hours & Temperature)*	
Date forwarded to Engineering Dept.:	Measured Mass	kg

% of Ultimate Test Load	Load (kN)		Lateral Deflection (mm)	Angular Rotation (deg)	Remarks
	Target	Actual			
10					
20					
30					
40					
50					
Perm. Set 0					

Average deflection measurement at 50% of ultimate load from % pervious proof load tests and ultimate load tests: δ_{av} = _____ mm

Maximum deflection: δ_{max} = 1.15 x δ_{av} = _____ mm

Did deflection measurement at 50% load exceed : δ_{max} ? YES / NO

Deflection measured at _____mm below / beyond tip

Trolley support(s) distance(s) from tip: _____m _____m

Crack Widths determined by: Feeler Gauge / Optical Device / Visual Estimate

After 1st 50% loading cracks closed to: H/L / Not Visible / Width = _____

PASS / FAIL

Testing Officer: _____

Witness: _____

Additional Notes:

Document History:

Version No.:	Date:	Description	Made by	Reviewed by	Approved by
1	02/072024	Initial Issue	Joshua Myhill	Joshua Myhill	Joshua Myhill