

## ACME INDUSTRIES - INCIDENT REPORT

# For Evaluation Purposes Only

### SUMMARY

At 02:47 UTC a cooling-loop pressure sensor on Line 3 tripped, causing an automatic shutdown of Compressor C-14. The event lasted 23 minutes. No injuries were reported. Production loss estimated at 4.2 metric tons.

### ON-SITE RESPONDERS

Lead Engineer: Marcus Chen, m.chen@acme-industries.com, +44 20 7946 0958  
Shift Supervisor: Priya Kapoor, p.kapoor@acme-industries.com, +49 30 1234 5678  
Safety Officer: David Okonkwo, d.okonkwo@acme-industries.com, +33 1 42 68 53 00  
Maintenance Tech: Sofia Reyes, s.reyes@acme-industries.com, +1 212 555 0147

### TIMELINE

02:47 Pressure sensor PS-314 exceeded 185 bar threshold (limit: 180 bar).  
02:48 Automated shutdown sequence initiated for Compressor C-14.  
02:51 Marcus Chen (m.chen@acme-industries.com) arrived on scene.  
02:55 Root cause identified: fouled check valve CV-88 on return loop.  
03:02 Priya Kapoor (p.kapoor@acme-industries.com) authorized manual bypass.  
03:10 Replacement valve installed by maintenance crew.  
03:10 System pressure normalized at 162 bar. Compressor C-14 restarted.

### ROOT CAUSE

Check valve CV-88 accumulated calcium carbonate scale over approx. 6 weeks, restricting flow and causing upstream pressure to exceed trip threshold. Valve was last inspected 2026-02-28 and was within tolerance at that time.

### CORRECTIVE ACTIONS

1. Replace all check valves on Line 3 return loop (CV-85 through CV-92).  
Owner: Marcus Chen (m.chen@acme-industries.com), Due: 2026-04-19
2. Reduce inspection interval from 8 weeks to 4 weeks for cooling-loop valves.  
Owner: Priya Kapoor (p.kapoor@acme-industries.com), Due: 2026-04-14
3. Install inline water-quality monitor on cooling supply header.  
Owner: David Okonkwo (+33 1 42 68 53 00), Due: 2026-05-01

### DISTRIBUTION

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### END OF REPORT