For: Head of Gas Operations · Technical & Safety Director

Typical IT / Analyst Prep: ~30 mins for towers with hourly master + unit AMR

Gas Shield: 4-Week Central LPG Riser Leak Replay (AED 0 Upfront)

Forwardable technical scope for your operational or IT lead. No live logins, VPNs or production changes are used at any point in this study.

01 · EXACT READ-ONLY HISTORICAL EXTRACTS (CSV / XLSX / PDF)

EXTRACT / REGISTER	TYPICAL SOURCE	FIELDS / COLUMNS USED
1. 90-Day Hourly Master & Unit Meter Logs	AMR / Gas Billing CSV	`timestamp_1h, building_id, meter_id, meter_level (master_inlet / flat / commercial_shop), cumulative_reading_m3`
2. Riser Pressure & Temperature Trends	Riser Telemetry CSV	`timestamp_1h, building_id, riser_id, pressure_kpa, gas_temp_c`
3. As-Built Riser Volume & Deliveries	Engineering Schedule CSV	`building_id, riser_id, geometric_pipe_volume_m3, tanker_delivery_ts, delivered_litres`

02 · TWO SAFE EXECUTION PATHS (CLIENT CHOOSES)

Option A · Read-Only Slice Under Mutual NDA

Your team shares the agreed read-only historical export above after bilateral NDA signature. Nodal processes it in an isolated UAE-compliant workspace, returns the report, and purges files on study close.

Option B · Self-Run Inside Your Own UAE Network

Your IT team runs Nodal's auditable, dependency-pinned offline script locally on an isolated workstation inside your network and shares only the summary table if you choose.

Strict Security & Scope Boundary (What Is Never Requested):

Zero connection to gas shut-off valves, fire panels or emergency alarms; towers with monthly manual reads only are excluded from night leak replay.

03 · WRITTEN DELIVERABLE, STAGE HONESTY & COMMERCIAL TERMS

WRITTEN OUTPUT

90-day night-window mass-balance replay ranking suspected slow riser leaks with estimated false-inspection rates vs threshold rules; all site inspections and valve actions stay 100% manual by licensed technicians.

PUBLISHED STAGE & LIMITS

Stage: Simulated, internal review (100 simulated towers, 120 tanks; untested on a real network). Of 77 slow riser leaks that grew to 0.5 L/min across 16 unseen scenarios (out of 416 total leaks), 75 were flagged before 0.5 L/min vs 56 (or 61 re-tuned) for a night-gap threshold rule, and 184 of 185 (of ~826) vs 130–142 in 32 second-review scenarios. False inspections were 0.81 vs 0.70 per building per year (0.67–0.94 re-tuned; difference not statistically significant). Needs hourly master, flat/shop meters, riser pressure/temperature and as-built riser volumes. No gain is claimed on tanker routing (~2% to 4% more stops vs days-of-cover).

MUTUAL NDA & FEE RULE

AED 0 upfront for this 4-Week Central LPG Riser Leak Replay. Zero obligation to continue; any subsequent shadow pilot or rollout runs strictly on terms agreed in writing after your team verifies the findings.

Ready to run this check in writing — zero introductory call required

Request bilateral NDA or local runner: santiago@nodal.systems · Full register: nodal.systems/gas-shield.html

AED 0 UPFRONT