

PIPELINE CONDITIONING

COMPLIANT FROM DAY ONE



METHOD

Flow-proportional

MONITORING

Continuous

TURNOVER

Documented validation

ENGINEERED CONDITIONING. VERIFIED PERFORMANCE.

MRR engineers and executes pipeline-conditioning programs for new construction, reactivated lines, and operating systems affected by odor fade. Each plan is built around the pipe material, flow conditions, construction sequence, injection method, monitoring requirements, and turnover criteria.

APPLICATIONS

New steel, plastic, and internally coated pipelines; line reactivation; commissioning; and odor-fade remediation.

HOW MRR DELIVERS

ENGINEERED FOR THE LINE

The conditioning plan defines injection points, target concentrations, monitoring, and verification around actual pipeline conditions.

CONTROLLED DURING EXECUTION

MRR selects in-service or offline conditioning and matches liquid or vapor injection technology to the project.

VERIFIED BEFORE TURNOVER

Odorant concentration is monitored during the work and documented through MRR Analytical Validation before close-out.

PIPELINE CONDITIONING

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HOW THE WORK IS ENGINEERED

Pipeline conditioning is engineered around the line, not applied as a standard dose. MRR defines the conditioning method, injection strategy, monitoring plan, and turnover criteria before mobilization, then measures performance throughout execution.

SERVICE METHOD

1

ENGINEER THE PICKLING PLAN

Define pipe material, geometry, surface condition, flow and pressure, construction sequence, odorant duty, injection points, target concentrations, and verification criteria. Rust, mill scale, residual moisture, coatings, and pipeline age are considered where relevant.

2

SELECT THE CONDITIONING METHOD

Choose in-service flow-proportional injection or offline conditioning to suit the line and schedule. MRR matches liquid or vapor injection technology and front-end or tail-end configuration to the project rather than forcing one method onto every pipeline.

3

CONTROL AND MONITOR EXECUTION

Real-time flow measurement governs injection. Odorant concentration can be monitored with MRR OdorTracker instrumentation, stain tubes, and gas chromatography as the project requires. Tail-end data supports controlled make-up odorization and early correction.

4

VALIDATE AND TURN OVER

MAV (MRR Analytical Validation) documents the measured result, including defined contact time, recovery performance, and protection against odor fade. The close-out record supports commissioning, internal review, and regulatory documentation.

TECHNICAL SCOPE

- New steel, plastic, and internally coated pipe
- New construction, reactivation, and odor-fade remediation
- Liquid and vapor injection technology
- Continuous concentration monitoring and remote alerts
- Closed-loop circulation where selected for the project
- Alignment with 49 CFR 192.625, CSA Z662, and B149.1 as applicable

PROJECT DELIVERABLES

- Engineered conditioning plan
- Injection and monitoring execution
- Concentration and field data
- MAV validation and close-out record
- Turnover to the operating team

WHY THE METHOD MATTERS

The result is a conditioned line with measured odorant performance from initial injection through commissioning, not a pipeline released on assumption.