

# Manifold Optimization System (MOS)



## "Less is MOS"

Historically, placement decisions for heating system infrastructure have been governed by inefficient plant specs and other non-engineered methods. These methods often require field engineering and decisions that lead to both increased infrastructure and ongoing maintenance costs required to maintain the equipment.

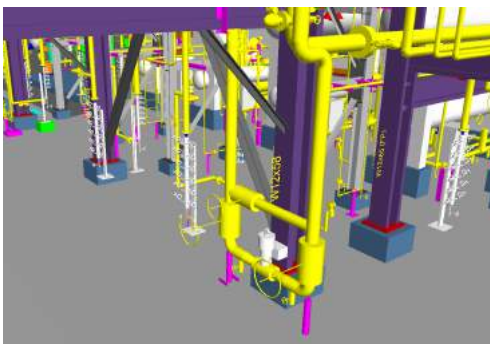
With development of the **Manifold Optimization System (MOS)** program offering, CSI has revolutionized a way to optimize the infrastructure associated with any jacketed or trace heating system.



**Forgotten Plant Infrastructure:** The lines shown above tie into one steam trap, which results in condensate back-up and poor tracing performance.

## Benefits

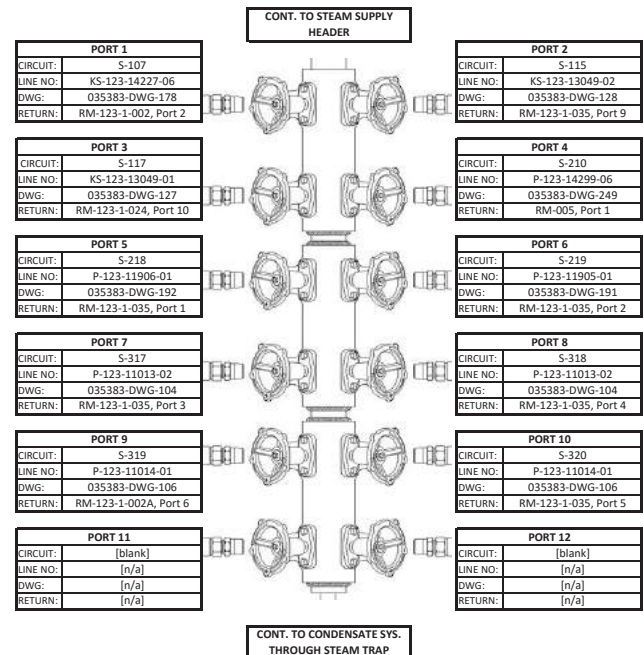
- **Fully Optimized Manifold Placement:** All circuit routings evaluated to determine minimum quantity of manifolds required.
- **Performance Based on Engineering:** Circuit lengths maximized based on pressure drop analysis.
- **Reduced Installation and Labor Costs:** Fewer manifolds and more strategically placed manifolds reduce overall installation & labor costs.
- **Operations Efficiency:** Less infrastructure equals lower cost throughout the life of the plant.



MANIFOLD DATA SHEET

CLIENT:	Engineering Company Name	REV:	0
END USER:	Refinery Name	CHK:	ACB
LOCATION:	Somewhere	ENG:	BNG
PROJECT:	project	DATE:	23-Jun-16
CSI SO #	35383	CLIENT PO #	-

MANIFOLD:	DM-123-1-011	TYPE:	Supply, 12-Port
UNIT:	U123	STEAM PRESSURE:	3.5 barg
EASTING:	10342601 mm	NORTHING:	1278404 mm
ELEVATION:	27430 mm		

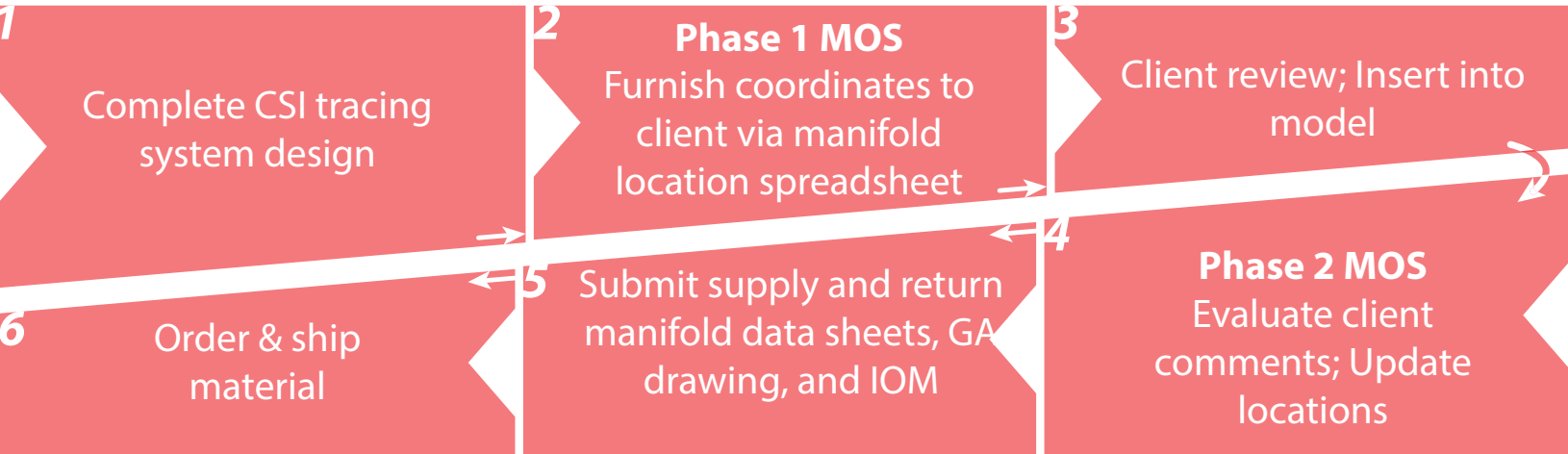


**CSI MOS Deliverable:** Each manifold has specific location and circuit ID.

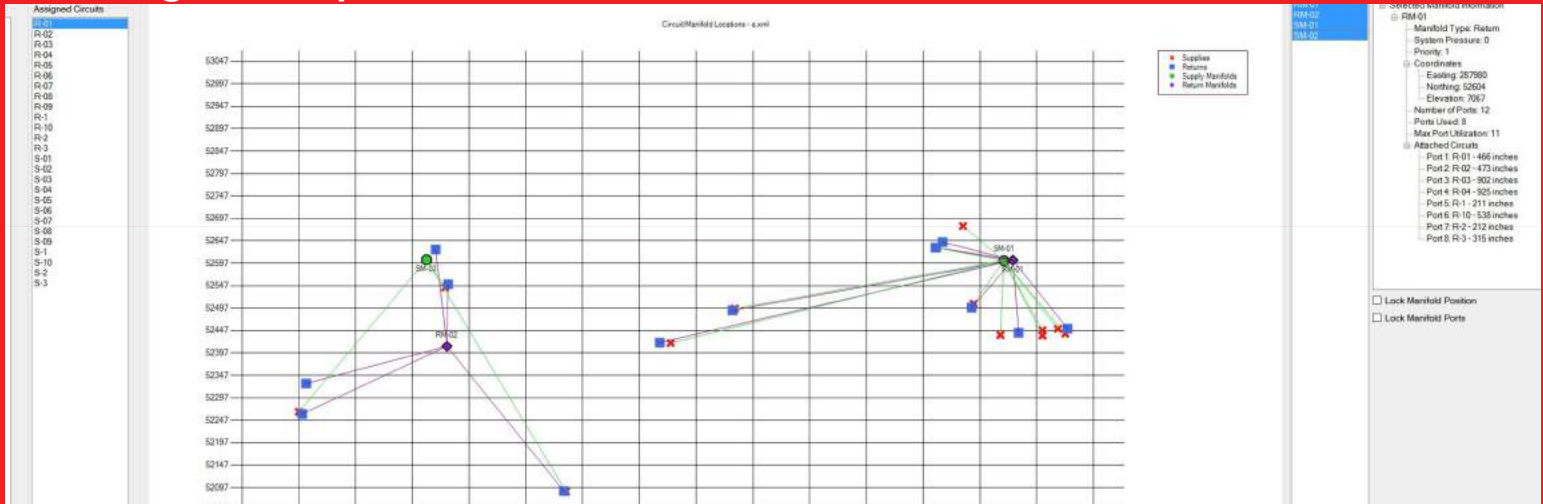
# Manifold Optimization System (MOS)



## MOS Process



## MOS Program Output



## Total Plant Solutions

From choosing the right heating system to designing the supporting infrastructure, CSI can optimize your plant to deliver a TOTAL PLANT SOLUTION which uses the appropriate thermal solution while minimizing costs of both the heating system and infrastructure (manifolds/supply-return tubing/steam traps).



Please Send All Quote Requests To:

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