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.

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.

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

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

CONT. TO STEAM SUPPLY HEADER

PORT 1	
CIRCUIT:	S-107
LINE NO:	KS-123-14227-06
DWG:	035383-DWG-178
RETURN:	RM-123-1-002, Port 2

PORT 2	
CIRCUIT:	S-115
LINE NO:	KS-123-13049-02
DWG:	035383-DWG-128
RETURN:	RM-123-1-035, Port 9

PORT 3	
CIRCUIT:	S-117
LINE NO:	KS-123-13049-01
DWG:	035383-DWG-127
RETURN:	RM-123-1-024, Port 10

PORT 4	
CIRCUIT:	S-210
LINE NO:	P-123-14299-06
DWG:	035383-DWG-249
RETURN:	RM-005, Port 1

PORT 5	
CIRCUIT:	S-218
LINE NO:	P-123-11906-01
DWG:	035383-DWG-192
RETURN:	RM-123-1-035, Port 1

PORT 6	
CIRCUIT:	S-219
LINE NO:	P-123-11905-01
DWG:	035383-DWG-191
RETURN:	RM-123-1-035, Port 2

PORT 7	
CIRCUIT:	S-317
LINE NO:	P-123-11013-02
DWG:	035383-DWG-104
RETURN:	RM-123-1-035, Port 3

PORT 8	
CIRCUIT:	S-318
LINE NO:	P-123-11013-02
DWG:	035383-DWG-104
RETURN:	RM-123-1-035, Port 4

PORT 9	
CIRCUIT:	S-319
LINE NO:	P-123-11014-01
DWG:	035383-DWG-106
RETURN:	RM-123-1-002A, Port 6

PORT 10	
CIRCUIT:	S-320
LINE NO:	P-123-11014-01
DWG:	035383-DWG-106
RETURN:	RM-123-1-035, Port 5

PORT 11	
CIRCUIT:	[blank]
LINE NO:	[n/a]
DWG:	[n/a]
RETURN:	[n/a]

PORT 12	
CIRCUIT:	[blank]
LINE NO:	[n/a]
DWG:	[n/a]
RETURN:	[n/a]

CONT. TO CONDENSATE SYS. THROUGH STEAM TRAP

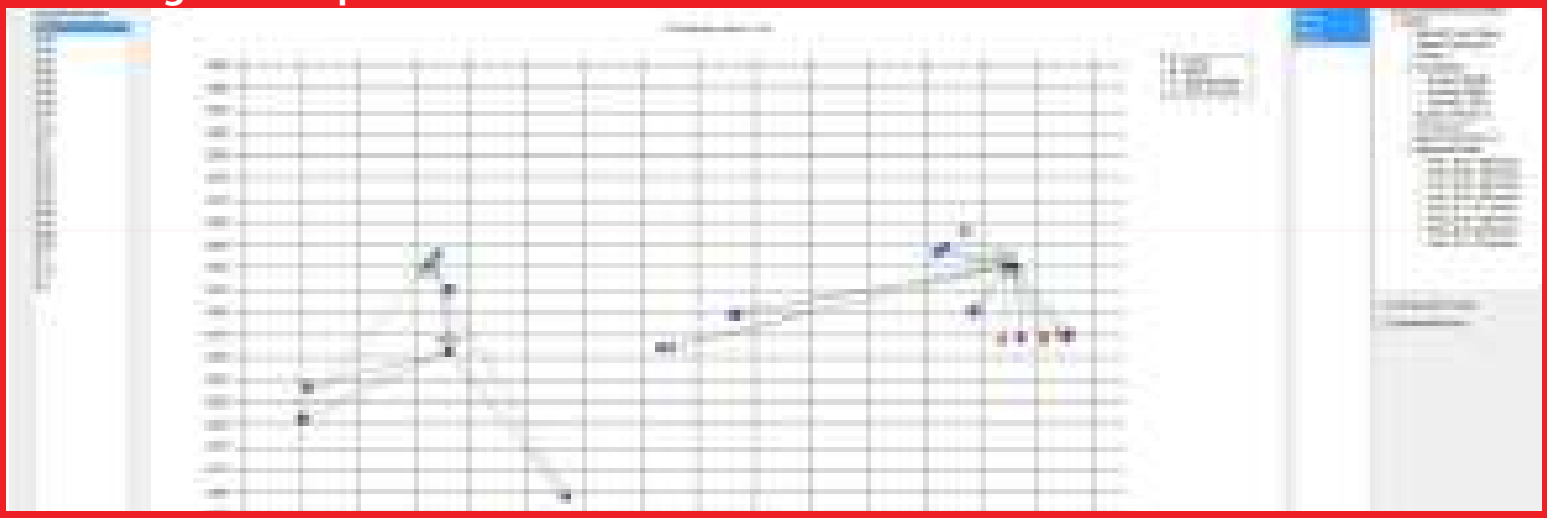
CSI MOS Deliverable: Each manifold has specific location and circuit ID.

Manifold Optimization System (MOS)

MOS Process

1. Complete CSI tracing system design
2. **Phase 1 MOS** Furnish coordinates to client via manifold location spreadsheet
3. Client review; Insert into model
4. **Phase 2 MOS** Evaluate client comments; Update locations
5. Submit supply and return manifold data sheets, GA drawing, and IOM
6. Order & ship material

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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