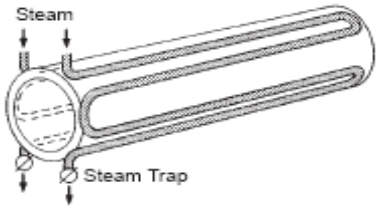
PROJECT :			**DATE :**	
PROJ. NO.:			**BY :**	S.Rahimi
CLIENT :			**REV :**	0
UNIT :			**DOC NO.:**	

Steam Trap Load Calculation (Process Tracing)

Input Data		
Process Fluid temperature	C	85
Process line size	in	20
Ambient Temperature	C	4
Insulation Efficiency	%	85
Safety Factor	---	3
Tracer Length	m	50
No of Tracer	----	2
Steam Pressure	barg	4.5

Calculation Results		
Steam latent heat	kj/kg	2096.8
Pipe surface area /1 m	m2	1.595
Overall heat transfer Coe.	w/m2 C	32
Heat loss	W/m	620.2
Total Heat Loss	kW	31.0
Total Condensate Rate	kg/hr	159.7
Steam Trap Rate	**kg/hr**	**79.9**



8 tracers

1 2 3

Note

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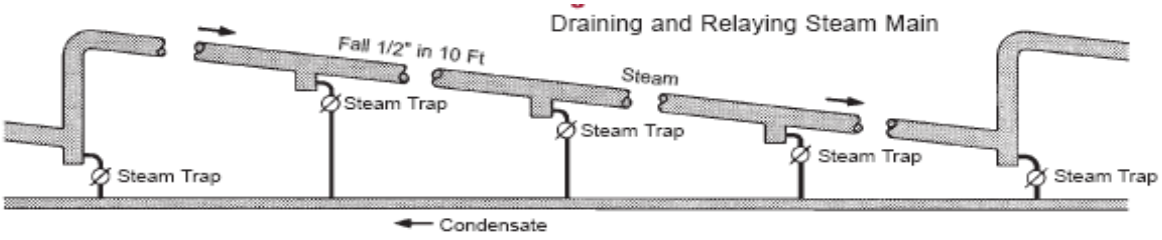
UNIT :			**DOC NO.:**	

Steam Trap Load Calculation (Steam Main Header)

Input Data		
Steam Temperature	C	371
Steam Pressure	barg	10
Process line size	in	36
Ambient Temperature	C	4.4
Insulation Efficiency	%	93.76
Safety Factor	---	2
Length between legs	m	50

Calculation Results		
Steam latent heat	kj/kg	1999.0
Pipe surface area /1 m	m2	2.871
Overall heat transfer Coe.	w/m2 C	32
Heat loss	W/m	2101.8
Total Heat Loss	kW	105.1
Steam Trap Rate	**kg/hr**	**378.5**



Note