



PROJECT : AAA
 PROJ. NO.: CCC
 CLIENT : BBB
 UNIT : KKK
 DATE : 05/01/2010 12:22

CLIENT P. NO.: DDD
 DOC. REV. : GGG
 DOC. NO.: EEE
 BY : FFF

General Data:

Tag No. HHH
 Name III
 P& ID No. JJJ

Process Data:

Liquid Flow Rate 15.00 m3/hr
 Vapor Flow Rate 2600.00 m3/hr
 Liquid Density 850.00 kg/m3
 Vapor Density 10.50 kg/m3
 Operating pressure 5.500 bara

Design Data:

Service Correction Factor 1.00 ----
 Vapor / Critical Velocity 0.85 ----

Elevation Data:

Bottom TL to LSLL 150.0 mm
 LSLL Hold up Time 2.0 min
 Liquid Hold Up Time 5.0 min
 LSHH Hold up Time 2.0 min
 Wiremesh Thickness 150.0 mm

Calculation Results :

K Value 0.099 m/sec
 Critical Velocity 0.88 m/sec
 Vapor Velocity 0.75 m/sec
 Bottom TL to LSLL 150.0 mm
 LSLL to LLL 520.6 mm
 LLL to HLL 1301.6 mm
 HLL to LSHH 520.6 mm
 LSHH to Inlet Nozzle 350.0 mm
 Inlet Nozzle to Wiremesh 800.0 mm
 Wiremesh to Top TL 300.0 mm
 Vessel Diameter 1106.1 mm
 Vessel Height 4442.8 mm
 Calculated L/D 4.00 ----

Nozzle Sizing:

	Inlet Nozzle	Liquid Outlet	Vapor Outlet	
Internal Diameter	350.0	75.0	250.0	mm
ρv^2	873.9	756.9	2275.3	kg/m sec ²
Velocity	7.55	0.94	14.72	m/sec

