



PROJECT : AAA
PROJ. NO.: CCC
CLIENT : BBB
UNIT : KKK
DATE : 05/01/2010 12:23

CLIENT P. NO.: DDD
REV. No. : 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
Vapor Viscosity 0.010 Cp

Design Data:

Minimum Droplet Diameter 200.00 Micron

Elevation Data:

Bottom to LSLL 150.00 mm
LSLL Hold up Time 2.0 min
Liquid Hold Up Time 5.0 min
LSHH Hold up Time 2.0 min

Calculation Results :

K Value 0.05 m/sec
Critical Velocity 0.43 m/sec
Vapor Velocity 3.23 m/s
Bottom to LSLL 150.0 mm
LSLL to LLL 200.0 mm
LLL to HLL 387.2 mm
HLL to LSHH 200.0 mm
Vapor Space 300.0 mm
Minimum Length 2252.0 mm
Vessel Diameter 1237.2 mm
Vessel Length 2838.4 mm
Calculated L/D 2.30

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

