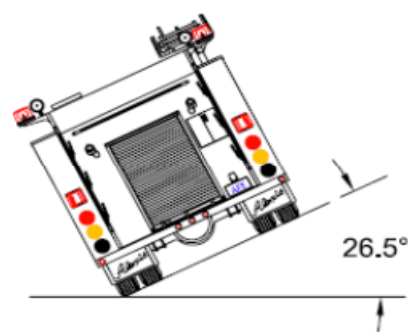
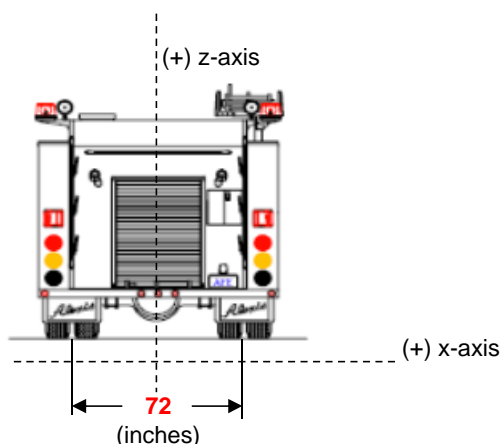
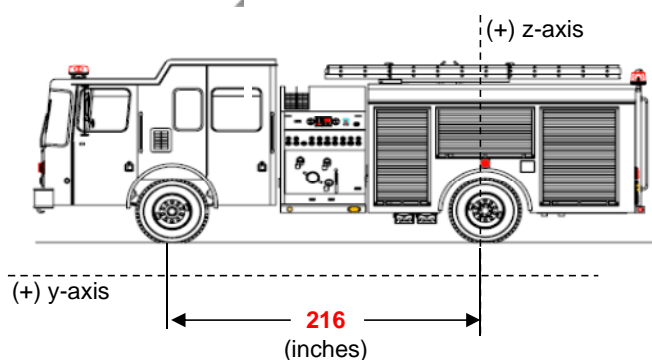


# VERTICAL CENTER OF GRAVITY / WEIGHT DISTRIBUTION

3/6/2013



Contract No:  
 Proposal Name: **AFE DEMO HAWK**  
 Calculated By: **Melissa Tinkham**  
 Approved By:  
 Revision:  
 Type of Chassis: **2002 Peterbilt 357 2-dr**  
 Type of Pump: **Waterous PB18-3030C**  
 Cab to Axle: **143.5**  
 Tank Capacity: **3000**

Item	Weight (lbs)	Coordinates Local C.G. (in)				Weight (lbs)	
		x	y	z	% Rear	Front	Rear
Chassis	18000	0	120	40	44%	10000	8000
Poly Tank (w/water)	27750	0	28.5	78	87%	3661	24089
Officer & Driver	500	0	160	75	26%	370	130
	0	0	0	0	0%	0	0
Pump Module	200	-35.5	111.5	33.5	48%	103	97
Pump	500	-35.5	111.5	31.5	48%	258	242
Body Module	1000	0	28.5	40	87%	132	868
	0	0	0	0	0%	0	0
Add. Equip.	1000	35.5	101	33.5	53%	468	532
Hose Tray	400	-35.5	70.5	32	67%	131	269
Preconnects	400	-35.5	8.5	53	96%	16	384
Folding Tank	250	35.5	12	53.5	94%	14	236
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
	0	0	0	0	0%	0	0
Total	50000	Global Center of Gravity				15153	34847
GAWR	66000	x	y	z		20000	46000
Load as % of Total	100%	-0.2	65.5	61.3		30%	70%
						OK	OK

Truck Tipping Angle: **30** degrees (Full Water Tank) **OK**  
 Maximum vertical center of gravity "z" = **57.60**  
 ( Maximum "z" is 80% of the rear axle track width)

SC