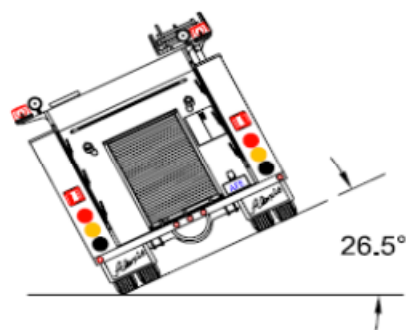
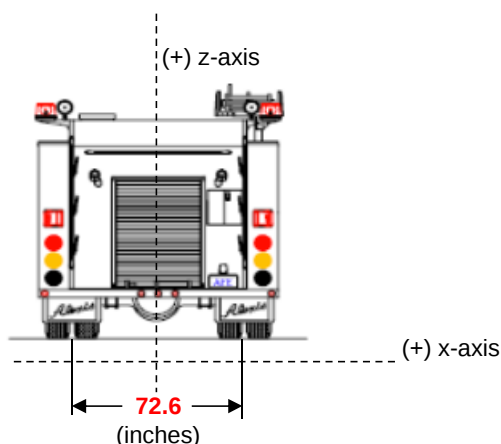
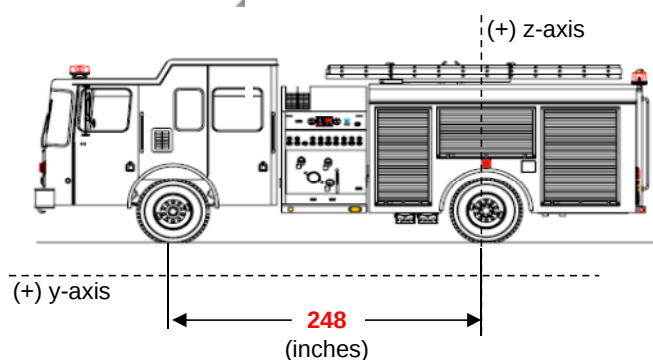


VERTICAL CENTER OF GRAVITY / WEIGHT DISTRIBUTION

6/6/2016



Contract No: [2283](#)
 Proposal Name: **AFE DEMO**
 Calculated By: **Melissa Tinkham**
 Approved By:
 Revision: **01 MLT**
 Type of Chassis: **Freightliner M2 106 2-dr**
 Type of Pump: **Darley PSM 1250gpm**
 Cab to Axle: **182.45**
 Tank Capacity: **3000**

Item	Weight (lbs)	Coordinates Local C.G. (in)				% Rear	Weight (lbs)	
		x	y	z			Front	Rear
Chassis	14791	0	133	43	47%		7907	6884
Poly Tank (w/water)	27750	-0.5	33.5	81	86%		3748	24002
Officer & Driver	500	0	197	64	21%		397	103
	0	0	0	0	0%		0	0
Pump Module	1200	0	152.5	56.5	39%		738	462
Pump	1400	0	155.5	44	37%		878	522
Body Module (SS)	3000	0	18	41	93%		218	2782
Hose Bed	1000	0	20	109	92%		81	919
Add. Equip. front	1250	0	87	41	65%		439	811
Add. Equip. Rear	750	0	-71.5	41	129%		-216	966
Preconnects	1000	0	169	83	32%		681	319
Dump	200	0	-101.5	52	141%		-82	282
	0	0	0	0	0%		0	0
Suction Hose	125	-39	39	65	84%		20	105
Folding Tank	200	34.5	26	64.5	90%		21	179
	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	53166	Global Center of Gravity					14829	38337
GAWR	56000	x	y	z			16000	40000
Load as % of Total	100%	-0.2	69.2	65.3			28%	72%
							OK	OK

Truck Tipping Angle: **29** degrees (Full Water Tank) **OK**
 Maximum vertical center of gravity "z" = **58.08**
 (Maximum "z" is 80% of the rear axle track width)

SC