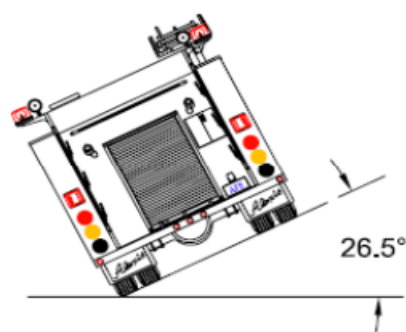
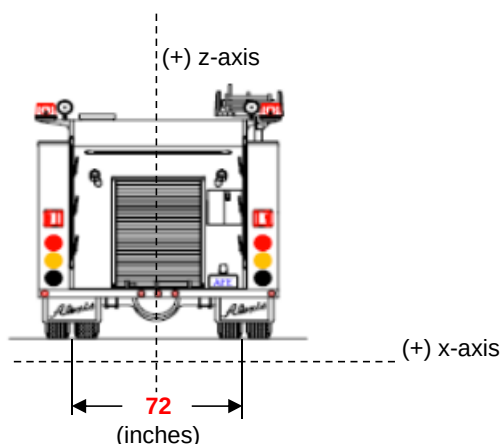
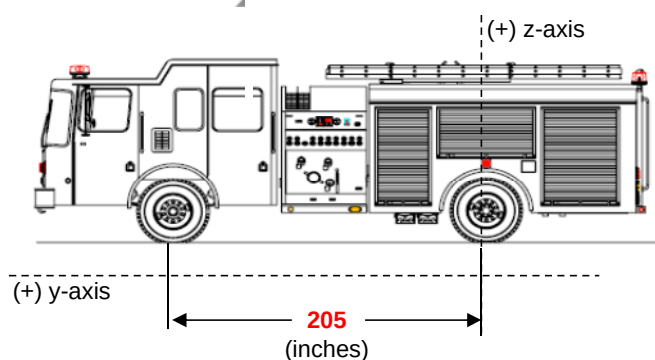


VERTICAL CENTER OF GRAVITY / WEIGHT DISTRIBUTION

1/9/2015



Contract No: **2265**
 Proposal Name: **AFE DEMO**
 Calculated By: **M. Tinkham**
 Approved By:
 Revision:
 Type of Chassis: **HME 1871-W-MFDxL 12RR**
 Type of Pump: **Darley PSM 1500 gpm**
 Cab to Axle: **145**
 Tank Capacity: **1000**

Item	Weight (lbs)	Coordinates Local C.G. (in)				Weight (lbs)	
		x	y	z	% Rear	Front	Rear
Chassis	16600	0	152	40	26%	12300	4300
Poly Tank (w/water)	9250	-1	6.25	71.5	97%	282	8968
Officer & Driver	500	0	231	65	-13%	563	-63
Men and Equip cab	1000	0	161	65	21%	785	215
Pump Module	750	0	80	59	61%	293	457
Pump	1800	0	75	41	63%	659	1141
Body Module	4750	0	12	59	94%	278	4472
Hose Bed	1000	0	-16	106.5	108%	-78	1078
Add. Equip. front	1000	0	48.5	58.5	76%	237	763
Add. Equip. Rear	1500	0	-57	58.5	128%	-417	1917
Preconnect Module	750	0	129	44	37%	472	278
Ladders & Suction Hose	500	3	-1.5	67	101%	-4	504
	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	39400	Global Center of Gravity				15370	24030
GAWR	45000	x	y	z		18000	27000
Load as % of Total	100%	-0.2	80.0	54.3		39%	61%
						OK	OK

Truck Tipping Angle: **33** degrees (Full Water Tank) **OK**
 Maximum vertical center of gravity "z" = **57.60** **OK**
 (Maximum "z" is 80% of the rear axle track width)