

NFPA Amp Load Calculator			V2A	10/14/1997					
CITY: Foothills Fire Protection District Golden, Colorado									
SHED			AMPS USED		NFPA TOTAL AMPS		SHED TOTAL		
QTY	1 IF NO	ITEM	GROSS	MAX	MIN	MAX	MIN	MAX	MIN
1		AC- 45,000 BTU W/Heater	48	48	48	0	0	48	48
1	1	Alarm- Back-up Electronic	0.8			0	0	0	0
1	1	Brake Jacobs Cummins ISC	3.7			0	0	0	0
1	1	Engine- Cummins ISC	3	3	3	3	3	0	0
1		Heater- Pump Compartment 30,000 BTU (2 fan)	6.6	6.6	6.6	0	0	6.6	6.6
11	1	Light- ROM LED Compartment (each)	0.9	0.9	0.9	4.95	4.95		
2	1	Light- Chassis- BackUp	2.1	2.1		4.2	0	0	0
1		Light- Chassis- Engine Maintenance	0.6	0.6	0.6	0	0	0.6	0.6
1	1	Light- Chassis- License	0.59	0.59	0.59	0.59	0.59	0	0
7	1	Light- Chassis- Marker (7 on body standard)	0.33	0.33	0.33	2.31	2.31	0	0
2		Light- Sptlt - Optimum HD15	7.8	7.8	7.8	0	0	15.6	15.6
6	1	Light- Ground (each light) 6 Standard	2.1	2.1	2.1	12.6	12.6	0	0
1	1	Light- OK to Pump	0.2	0.2	0.2	0.2	0.2	0	0
1	1	Light- Open Compartment- Flashing	2.1	2.1	2.1	2.1	2.1	0	0
10	1	Light- Package- Lower Whelen LED's (each)	1	1	1	10	10	0	0
1	1	Light- Package- Upper Whelen Ltbar LED	6	6	6	6	6	0	0
1	1	Light- Package- Upper Whelen RB6T Rotators (pair)	7.8	7.8	7.8	7.8	7.8	0	0
4	1	Light- Panel (each light) 2/Side + 4 top control	1.44	1.44	1.44	5.76	5.76	0	0
6	1	Light- Scene- Whelen 7x9 (each)	2.7	2.7	2.7				
2		Light- Spot/Fldlt- Unity	3.2	3.2	3.2	0	0	6.4	6.4
1		Light- Spot-Optronics 400,000 CP	7.5			0	0	0	0
6	1	Light- Step- LED	0.33	0.33	0.33	1.98	1.98	0	0
2		Mirror- Moto Remote & Heated	8			0	0	0	0
1	1	Pump- Gauge Package	5	5	5	5	5	0	0
1	1	Pump- Primer	100			0	0	0	0
1	1	Radio (default)	5	5	5	5	5	0	0
1	1	Siren- Whelen 295- 100 watt	9	9		9	0	0	0
1	1	Trans- Allison EVS3000	9	9	2	9	2	0	0
1	1	Voltmeter W/Low Voltage Warning	0.4	0.4	0.4	0.4	0.4	0	0
1		Windshield Wiper	5	5		0	0	5	0
					TOTAL	89.89	69.69	82.2	77.2
NOTE: No value in a row indicates an intermittent load and is not used in calculating total loads									
					Maximum amp load	172.09	(includes shed item)		
					Minimum amp load	69.69			
MAX= Maximum Continuous Load									
MIN= Minimum NFPA Load Requirements									
			AMPS						
			Rated	Idle		MAX	MIN		
1		Alternator- HME- LESTEK 270- ALL	255	120		255	120		
						0	0		
(Positive number indicates power reserve)			ALTERNATOR RESERVE			165.11	50.31		
						SCHEDABLE AMPS	82.20	77.20	
(Negative number indicates power reserve)			AMPS TO SHED			-82.91	26.89		
Adequate alternator at idle			YES						
Load management required			NO						
(Positive number indicates power reserve)			ALTERNATOR RESERVE			751.07	344.09		
						SCHEDABLE AMPS	82.20	77.20	
(Negative number indicates power reserve)			AMPS TO SHED			-668.87	-266.89		
Adequate alternator at idle			YES						
Load management required			NO						