



City of Salem
Fire Department
Fire Prevention Division
503-588-6245



MODEL ROCKET LAUNCHING PERMIT

DATE: _____

APPLICANT/CONTACT NAME: _____ 24-HR PHONE #: _____

ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

LAUNCH LOCATION: _____

ROCKET TYPE / SIZE _____

LAUNCH DATE: _____ APPROX. TIME: _____

(ONLY DURING DAYLIGHT HOURS)

WRITTEN PERMISSION FROM THE PROPERTY OWNER OF THE PROPOSED LAUNCH SITE MUST ACCOMPANY THE PERMIT APPLICATION. It shall be the responsibility of the model rocket user to secure permission of the property owner when such property is intended to be used to launch model rockets.

PROPERTY OWNER/CONTACT: _____ PHONE#: _____

ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

DIAGRAM OF LAUNCH SITE OR ATTACH DIAGRAM:

(Included distance from buildings, streets, highways, and combustible vegetation)


NORTH

PERMITS MAY BE REVOKED AT ANY TIME AT THE DISCRETION OF THE FIRE DEPARTMENT

The fire department may immediately revoke its authorization to use a firing area if it is found that an undue hazard exists, including, but not limited to, fire safety hazards, life safety hazards or weather conditions.

REVIEW BY: _____ APPROVED BY: _____

ISSUE DATE: _____ PERMIT EXPIRES: _____

SEE OTHER SIDE FOR ADDITIONAL INFORMATION.

Read and sign each of the following safety guidelines for the launching of model rockets (NFPA 1122).

- 1. Materials.** I will use only lightweight, non-metal parts for the nose, body, and fins of my rocket. _____
- 2. Motors.** I will use only certified, commercially-made model rocket motors, and will not tamper with these motors or use them for any purposes except those recommended by the manufacturer. _____
- 3. Ignition System.** I will launch my rockets with an electrical launch system and electrical motor igniters. My launch system will have a safety interlock in series with the launch switch, and will use a launch switch that returns to the "off" position when released.

- 4. Misfires.** If my rocket does not launch when I press the button of my electrical launch system, I will remove the launcher's safety interlock or disconnect its battery, and will wait 60 seconds after the last launch attempt before allowing anyone to approach the rocket. _____
- 5. Launch Safety.** I will use a countdown before launch, and will ensure that everyone is paying attention and is a safe distance of at least 4.6 m (15 ft) away when I launch rockets with D motors or smaller, and 9.1 m (30 ft) when I launch larger rockets. If I am uncertain about the safety or stability of an untested rocket, I will check the stability before flight and will fly it only after warning spectators and clearing them away to a safe distance. _____
- 6. Launcher.** I will launch my rocket from a launch rod, tower, or rail that is pointed to within 30 degrees of the vertical to ensure that the rocket flies nearly straight up, and I will use a blast deflector to prevent the motor's exhaust from hitting the ground. To prevent accidental eye injury, I will place launchers so that the end of the launch rod is above eye level or will cap the end of the rod when it is not in use. _____
- 7. Size.** My model rocket will not weigh more than 1500 g (53 oz) at liftoff and will not contain more than 125 g (4.4 oz) of propellant or 320 N-sec (71.9 lb-sec) of total impulse. If my model rocket weighs more than 453 g (1 lb) at lift-off or has more than 113 g (4 oz) of propellant, I will check and comply with Federal Aviation Administration regulations before flying. _____
- 8. Flight Safety.** I will not launch my rocket at targets, into clouds, or near airplanes, and will not put any flammable or explosive payload in my rocket. _____
- 9. Launch Site.** I will launch my rocket outdoors, in an open area at least as large as shown in [Table B.2](#), and in safe weather conditions with wind speeds no greater than 32.22 km/h (20 mph). I will ensure that there is no dry grass close to the launch pad, and that the launch site does not present risk of grass fires. _____

Table B-2 Launch Site Dimensions

Installed Total Impulse (Newton-Seconds)	Equivalent Motor Type	Minimum Site Dimensions (ft.)
0 - 1.25	1/4 A & 1/2 A	50
1.26 - 2.50	A	100
2.51 - 5.00	B	200
5.01 - 10.00	C	400
10.01 - 20.00	D	500
20.01 - 40.00	E	1000
40.01 - 80.00	F	1000
80.01 - 160.00	G	1000
160.01 - 321.00	2Gs	1500

- 10. Recovery System.** I will use a recovery system such as a streamer or parachute in my rocket so that it returns safely and undamaged and can be flown again, and I will use only flame-resistant or fireproof recovery system wadding in my rocket. _____
- 11. Recovery Safety.** I will not attempt to recover my rocket from power lines, tall trees, or other dangerous places. _____
- 12. Responsible Adult.** I will have a responsible adult present at all times during launching activities. _____