Rocket Launch Safety Procedures

1. PURPOSE
   1. This serves as a guide to reference from in regards to rocket launch safety.
2. SCOPE
   1. This SOP applies to all members of Fog City Rocketry who oversee and initiate the procedures for the rocket launch.
3. RESPONSIBILITIES
   1. **Executive Responsible for Enforcement:** Oskar Garcia, President.
   2. Personnel who are involved in the rocket launch shall be responsible for transporting rocket equipment, setting up a safety zone for launching a rocket, and conducting a pre-launch and post-launch safety check.
4. PROCEDURE
   1. For transporting equipment to the launch site, the rocket components including fuel and rocket model are to be packed and shipped separately to minimize the possibility of damaging personnel, property and environment. The fuel for the rocket is to be handled carefully in the transportation process.
   2. When arriving at the launch site, ensure that the area is clear and unobstructed. Reserve a wide area called a safety zone to protect personnel and property. The fuel is to be added after the rocket is setup securely on the launch pad.
   3. As you set up the rocket, ensure that all the systems from propulsion to control [avionics] are in working order. Inspect the surrounding environment for any possible obstructions before launch. After the launch, make sure that the materials used, like rocket parts and any remaining fuel, is handled and disposed properly.
5. SAFETY
   1. Possible safety considerations include potential damage to surrounding property and injury of personnel.
   2. Hazards can be prevented by conducting a pre-launch safety check, ensuring that the propulsion and the control systems are functional and the surrounding area is not within range of the safety zone.
   3. Hazards can be mitigated by implementing exclusion zones and notifying nearby residents of the rocket launch and the potential hazards. Materials used for the launch will be disposed properly to minimize environmental impact.
   4. In the event of an incident, the proper response shall be administering first-aid in case of an injury and emergency services will be contacted if necessary. For environmental damage, please reach out to emergency services.
6. REFERENCES AND RESOURCES
   1. Author, “Title,” Web URL
7. REVIEW AND APPROVAL

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| --- | --- | --- |
| **Step** | **Date** | **Done/Approved By** |
| Drafted | MAY 27, 2023 | Ethan Hanlon, CAO |
| Approved by Safety Officer |  |  |
| Approved by President/Committee |  |  |
| Effective |  |  |
| Revised |  |  |

1. REVISION HISTORY

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| --- | --- | --- |
| **Version** | **Effective Date** | **Notes** |
| 1.0.0 | JUNE 1, 2023 | Original version |