| Before each flight, fill out one card and bring it with your rocket to the RSO | Before each flight, fill out one card and bring it with your rocket to the RSO | |
|--|---|--------------------|
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| | | > |
| R NAR#/TRA#: Cert Flight | R NAR#/TRA#: Cert Flight | 3 |
| R Name: Name: New River Valley Rocketry | Name: New River Valley Rock | etru |
| R IICW KIVEI Valley KULKELIY First Flight Kit Plan Original | R IIII KIT First Flight Kit Plan Origina | |
| Color 2-Stage 3-Stage Cluster | Color 2-Stage 3-Stage Cluster | _ |
| C | C | |
| Length Dia Wt CP CG | Length Dia Wt CP CG | |
| ENGINES: # Type Delay EX? RECOVERY Method(s): | ENGINES: # Type Delay EX? RECOVERY Method(s): | |
| E Parachute Helicopter Streamer Glider | E Parachute Helico Streamer Glider | • |
| 7 Tumble Altimeter | 7 Tumble Altimet | ter |
| Comments Other (Explain Below) | Comments Other (Explain Below) | |
| | | |
| Rod 1/8" 3/16" 1/4" Rail 1010 1515 Unistrut | Rod 1/8" 3/16" 1/4" Rail 1010 1515 Unistrut | |
| RSO PAD# | RSO PAD# | |
| | | |
| Before each flight, fill out one card and bring it with your rocket to the RSO | Before each flight, fill out one card and bring it with your rocket to the RSO | |
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| Name: | Image: | ı |

I have reviewed the safety code and present my rocket to the RSO for inspection. I have conducted a preliminary safety check and my initials verify that this rocket meets these requirements:

ROCKET:

- ✓
- \checkmark
- sound construction, mechanical integrity body tube, fins, nose cone fins well attached, should be able to lift loaded rocket up by any fin rod/rail guidance appropriate for rocket weight & initial thrust guides not too far apart, aligned, ideally 2-4 calibers spanning the CP/CG \checkmark

RECOVERY:

- \checkmark
- Positive attachment at all points, quick links tight Shock cord intact, no fraying, burns or cuts Streamer or parachute and lines are intact with no holes, cuts or burns Recovery wadding installed to protect recovery device Nose cone fit is secure but not too tight to prevent deployment Number & size of shear pins (if used) correct for ejection charge \checkmark
- \checkmark
- \checkmark

ALTIMETER, IF EQUIPPED

- drogue and main settings set as appropriate for rocket and conditions e-match continuity verified at the pad can be disarmed at the pad if needed battery voltage is at least 9v or enough to fire recovery initiator
- \checkmark

MOTOR:

- Rocket motor is certified with TRA or NAR (commercial launch only)
- motor meets 5:1 T/W minimum or 35 f/s at end of rod/rail
- **√** positive motor retention in place
- \checkmark motor delay is correct for mass and conditions

Fliers Initials

I have reviewed the safety code and present my rocket to the RSO for inspection. I have conducted a preliminary safety check and my initials verify that this rocket meets these requirements:

ROCKET:

- sound construction, mechanical integrity body tube, fins, nose cone fins well attached, should be able to lift loaded rocket up by any fin ✓
- 1
- \checkmark
- rod/rail guidance appropriate for rocket weight & initial thrust guides not too far apart, aligned, 2-4 calibers apart spanning the CP/CG

RECOVERY:

- Positive attachment at all points, quick links tight Shock cord intact, no fraying, burns or cuts Streamer or parachute and lines are intact with no holes, cuts or burns Recovery wadding installed to protect recovery device Nose cone fit is secure but not too tight to prevent deployment Number & size of shear pins (if used) correct for ejection charge
- \checkmark

ALTIMETER, IF EQUIPPED

- drogue and main settings set as appropriate for rocket and conditions e-match continuity verified at the pad can be disarmed at the pad if needed ✓

- ✓ battery voltage is at least 9v or enough to fire recovery initiator

MOTOR:

- Rocket motor is certified with TRA or NAR (commercial launch only) motor meets 5:1 T/W minimum or 35 f/s at end of rod/rail ✓
- \checkmark
- ✓ positive motor retention in place

 \checkmark motor delay is correct for mass and conditions I have reviewed the safety code and present my rocket to the RSO for inspection. I have conducted a preliminary safety check and my initials verify that this rocket meets these requirements:

- ROCKET:

 ✓ sound construction, mechanical integrity body tube, fins, nose cone
 ✓ fins well attached, should be able to lift loaded rocket up by any fin
 ✓ rod/rail guidance appropriate for rocket weight & initial thrust
 ✓ guides not too far apart, aligned, ideally 2-4 calibers spanning the CP/CG

RECOVERY:

- Positive attachment at all points, quick links tight Shock cord intact, no fraying, burns or cuts Streamer or parachute and lines are intact with no holes, cuts or burns Recovery wadding installed to protect recovery device Nose cone fit is secure but not too tight to prevent deployment Number & size of shear pins (if used) correct for ejection charge

ALTIMETER, IF EQUIPPED

- drogue and main settings set as appropriate for rocket and conditions e-match continuity verified at the pad can be disarmed at the pad if needed battery voltage is at least 9v or enough to fire recovery initiator
- √
- ✓
- \checkmark

MOTOR:

- ✓ Rocket motor is certified with TRA or NAR (commercial launch only) motor meets 5:1 T/W minimum or 35 f/s at end of rod/rail
- √
- positive motor retention in place motor delay is correct for mass and conditions

Fliers Initials

I have reviewed the safety code and present my rocket to the RSO for inspection. I have conducted a preliminary safety check and my initials verify that this rocket meets these requirements:

ROCKET:

- sound construction, mechanical integrity body tube, fins, nose cone fins well attached, should be able to lift loaded rocket up by any fin rod/rail guidance appropriate for rocket weight & initial thrust guides not too far apart, aligned, 2-4 calibers apart spanning the CP/CG
- \checkmark
- ✓
- √

RECOVERY:

- \checkmark
- Positive attachment at all points, quick links tight Shock cord intact, no fraying, burns or cuts Streamer or parachute and lines are intact with no holes, cuts or burns Recovery wadding installed to protect recovery device Nose cone fit is secure but not too tight to prevent deployment Number & size of shear pins (if used) correct for ejection charge
- \checkmark
- \checkmark

ALTIMETER. IF EQUIPPED

- drogue and main settings set as appropriate for rocket and conditions e-match continuity verified at the pad can be disarmed at the pad if needed ✓
- ✓
- \checkmark
- \checkmark battery voltage is at least 9v or enough to fire recovery initiator

MOTOR:

- Rocket motor is certified with TRA or NAR (commercial launch only) motor meets 5:1 T/W minimum or 35 f/s at end of rod/rail positive motor retention in place motor delay is correct for mass and conditions
- \checkmark
- \checkmark
- ✓

Fliers Initials

Fliers Initials