

Tripoli Research Safety Code

This Safety Code augments the Tripoli High-Power Safety code and defines the rules and polices that are unique to Tripoli's Research Launches. The High-Power Safety Code defines the base set of rules and policies for all Tripoli Sanctioned Launches. The High-Power Safety Code covers the operation of Research Launches unless explicitly superseded by the rules and polices of the Research Safety Code.

1. Administration

1.1. Scope

1.1.1. 1.1.1. This code shall apply to all individuals who wish to participate in Tripoli Research Launches.

1.1.2. 1.1.2. This code shall apply to the ~~design, construction, limitations to the kinds of limitation of motors and propellants, their mass and power as~~ used at a Tripoli Research Launch.

1.1.3. 1.1.3. This code ~~shall may~~ apply to other activities ~~explicitly described herein~~ as permitted at Tripoli Research Launches that do not involve the use of research motors.

1.1.4. 1.1.4. This code ~~shall does~~ not ~~apply to address~~ the ~~self-manufactures~~ safe practices for the ~~design~~ or ~~process of~~ manufacture of rocket motors or propellants for an individual's own use.

1.1.5. 1.1.5. This code only identifies the requirements that are unique for Tripoli Research Launches. In areas where this code is silent, the requirements defer back to the Tripoli High Power Rocketry Safety Code ~~for commercial launches~~.

1.2. Purpose

1.2.1. 1.2.1. The purpose of the Tripoli Research Program is to foster the research and development of propulsion, payloads, electronics, recovery devices, air frame design, and construction materials.

1.2.2. 1.2.2. It is the purpose of Tripoli to ~~sanction and insure legal~~ Tripoli Research activities as set forth in the Articles of Incorporation, Article III (a), (b), and (f).

1.2.2. 1.2.3. The purpose of this code is to provide reasonable safety guidelines for the use of ~~by~~ members of the Tripoli Rocketry Association at Tripoli Research Launches.

1.2.3. 1.2.4. It is the purpose of this code to provide a means to introduce new technology or to include currently prohibited technology into Tripoli Research activities as the ability and expertise of these technologies becomes available.

1.2.4. 1.2.5. This code in an extension to the Tripoli High Power Rocketry Safety Code. It is to be used to clarify the additional rules that govern Tripoli Research Launches. Fliers and

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launch organizers that participate in Tripoli Research Launches are governed by both safety codes.

1.3. Enforcement

~~1.3.1. This code shall be enforced according to the provisions set forth in the Articles of Incorporation and Bylaws of the Tripoli Rocketry Association, Inc., and the operating rules approved by the Board of Directors (BOD).~~

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2. Referenced Publications

2.1. General

~~2.1.1.~~ ~~2.1.1.~~ Some of the documents or portions thereof listed in this chapter are referenced within this code and shall be considered part of the requirements of this document except for such requirements modified or waived in this code.

~~2.1.2.~~ ~~2.1.2.~~ TRA Publications. Tripoli Rocketry Association, Inc., P. O. Box 87, Bellevue NE 68005.

Articles of Incorporation and Bylaws

High Power Rocketry Safety Code

Tripoli Motor Testing Committee (TMT), Testing Policies

~~2.1.3.~~ ~~2.1.3.~~ ~~NFPA~~ ~~NFPA~~ Publications. National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy MA 02269-9101.

NFPA 1122, Code for Model Rocketry

NFPA 1127, Code for High Power Rocketry

3. Definitions

3.1. General

~~3.1.1.~~ ~~3.1.1.~~ The definitions contained in this chapter shall apply to the terms used in this code. Where terms are not included, common usage of the terms shall apply.

3.2. Tripoli Research Definitions

~~3.2.1.~~ ~~3.2.1.~~ ~~BoD~~ ~~BoD~~. Board of Directors of the Tripoli Rocketry Association, Inc.

~~3.2.2.~~ ~~3.2.2.~~ ~~Rocket Motor~~. As used in this code, Rocket Motor shall refer only to Composite Propellant, Sugar Propellant, commercial black powder, and Hybrid Rocket Motor.

~~3.2.2.1.~~ ~~3.2.2.1.~~ ~~Certified Motor~~. Any commercial motor which has been certified by Tripoli

~~3.2.2.1.~~ ~~3.2.2.1.~~ ~~Motor Testing (TMT) and/or~~, NAR Standards and Testing (S&T) ~~and/~~, or CAR Motor Certification Committee, ~~or at one time was~~.

~~3.2.2.2.~~ ~~3.2.2.2.~~ ~~Expired Motor~~. Any previously certified ~~and~~ motor, for which its certification has expired, ~~or has~~.

~~3.2.2.3.~~ ~~3.2.2.3.~~ ~~Decertified Motor~~. These motors have been decertified ~~by the Tripoli Motor Testing (TMT), NAR Standards and Testing (S&T), or CAR Motor Certification Committee. These motors may NOT be used~~.

~~3.2.2.4.~~ ~~3.2.2.4.~~ ~~Research Motor~~. Any ~~non-certified~~ motor made for personal use ~~that may or may which is not contain commercially available components.~~ a Certified Motor. Research motors shall not be sold or distributed for a profit.

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~~3.2.2.5. 3.2.2.3. Commercial Motor Approved for Research Use Only.~~ Any commercial motor that has been reviewed and approved by Tripoli Motor Testing (TMT) that exceeds the ~~limits of~~ total thrust limit identified in NFPA 1127.

~~3.2.2.6. 3.2.2.4. Composite Propellant Rocket Motor~~ Any device ~~as defined under as a~~ Rocket Motor that utilizes a propellant charge consisting primarily of an inorganic oxidizer dispersed in a carbonaceous polymeric binder.

~~3.2.2.7. 3.2.2.5. Hybrid Rocket Motor.~~ A rocket motor in which the fuel exists in a different physical state (solid or gaseous) than the oxidizer and that derives its force or thrust from the combination thereof.

~~3.2.2.8. 3.2.2.6. Sugar Propellant Motor.~~ A propellant charge containing potassium nitrate as the primary oxidizer, and containing either dextrose or sorbitol or erythritol as the primary fuel and binder.

~~3.2.3. 3.2.3. Range Safety Officer (RSO).~~ A Tripoli Level 2 or Level 3 member who is responsible for the safety of the launch.

~~3.2.4. 3.2.4. Launch Director (LD).~~ A Tripoli Level 2 or Level 3 member who has overall administrative responsibility for the launch.

~~3.2.5. Launch Site.~~ The primary parcel of land from which research activities are conducted and all adjacent parcels which are owned by the same property owner, or other property owners, and who have granted permission for Tripoli Research Launch activities to be conducted on their property. This includes the Research / High Power Launch Area, Model Rocket Launch Area and Preparation Area.

~~3.2.5.1. Research / High Power Launch Area.~~ An area or areas designated by the Launch Director or Range Safety Officer from which research / high power rockets are launched or motors are static tested.

~~3.2.5.2. Model Rocket Launch Area.~~ An area or areas designated by the Launch Director or Range Safety Officer from which model rockets are launched.

~~3.2.5.3. Preparation Area.~~ An area designated by the Launch Director or Range Safety Officer in which rocket motors, rockets, or electronic components for rockets are prepared for launching or static testing.

~~3.2.6. Named Insured.~~ Individuals that are not Tripoli Members but are members of groups that have been submitted to, and approved by the Tripoli Insurance Liaison.

~~3.2.7. National Association of Rocketry (NAR)~~

~~3.2.5. 3.2.8. Tripoli Regular or Certified Launch. NAR.~~ The National Association of Rocketry.

~~3.2.6. Tripoli High Power Launch.~~ Any Tripoli launch where only certified motors may be flown.

~~3.2.7. 3.2.9. Shall.~~ Indicates a mandatory requirement.

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~~3.2.8. 3.2.10.~~ Tripoli (TRA). Tripoli Rocketry Association, Inc.

~~3.2.9. 3.2.11.~~ TRC Tripoli Research Committee

~~3.2.10. 3.2.12.~~ Tripoli Research Launch. Any Tripoli Research launch where research activities, as described in this code, may be conducted.

4. Limits of Liability

4.1. Use

~~4.1.1. The use of all motors at Tripoli Research Launches shall be conducted in accordance with this code.~~

4.2.4.1. Disclaimer

~~4.1.1. 4.2.1.~~ The Tripoli Rocketry Association does not in any way participate in the manufacturing or fabrication process of Research Rocket Motors or propellants.

~~4.1.2. 4.2.2.~~ The Tripoli Rocketry Association does not regulate, approve, or officially support or endorse any propellant manufacturing or fabrication process, or in any way imply such approval.

~~4.1.3. 4.2.3.~~ The Tripoli Rocketry Association does not endorse or provide any safety codes for the self- manufacture of any propellant.

~~4.1.4. 4.2.4.~~ The publishing or reporting of any research rocketry activity in any publication shall not imply TRA endorsement of any research activity or endorsement of any research manufacturing or fabrication procedure.

4.3. Legality

~~4.3.1. The Tripoli Rocketry Association does not claim Research Rocketry to be legal in every municipality or in every state.~~

~~4.3.2. Participants in the Tripoli Research program shall comply with all local, municipal, state, and federal regulations where said activities are conducted.~~

4.4. Insurance

~~4.4.1. The Tripoli Rocketry Association supports Tripoli Research activities where said activities are conducted legally.~~

~~4.4.2. Tripoli Research activities are only insured when the provisions of this code are followed.~~

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~~4.4.3. No Tripoli member shall imply to any authority or landowner that Tripoli Research activities are insured when, due to not following the provisions of this code, they are not.~~

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5. Exclusions

5.1. Black Powder Rocket Motors

~~5.1.1. 5.1.1. Uncertified blackBlack~~ powder-based research motors are prohibited, (including as a composite ingredient, regardless of binder and/or formulation modifications). ~~Certified black powder motors are not excluded by this code.~~

5.2. Liquid Rocket Motors

~~5.2.1. 5.2.1.~~ With the exception of nitrous-oxide hybrid rocket motors, liquid rocket motors are ~~generally~~ prohibited at Tripoli Research Launches. BOD approval may be given for very well documented liquid motor projects. ~~All such projects must be submitted to the TRC for review and recommendation to the BOD.~~

5.3. Additional Prohibited Propellants

~~5.3.1. 5.3.1.~~ The following propellants shall also be excluded from Tripoli Research launches: ~~So called~~ double-based, triple-based, and micro-grain propellants (including zinc/sulfur propellants).

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6. Process of Inclusion

6.1. General

~~6.1.1. 6.1.1.~~ A proposal for the introduction of new technologies and the inclusion of currently prohibited technologies into the Tripoli Research program shall be submitted, in writing, ~~by one or more Tripoli Research members to the Tripoli Research Committee (TRC), for review, after which the proposal is forwarded and recommendation to the BOD.~~

~~6.1.2. 6.1.2.~~ The originator(s) of the proposal shall provide any and all technical documents that may be requested by the TRC and/or the BOD.

~~6.1.3. 6.1.3.~~ Following review, the TRC and BOD may set a time and location for a demonstration of the requested technology, as is deemed necessary by the TRC and BOD.

~~6.1.4. 6.1.4.~~ After demonstration and testing, the TRC and BOD shall determine whether or not to introduce the requested technology into the Tripoli Research program.

~~6.1.5. 6.1.5.~~ Acceptance of new technology shall be based on technical data, and/or on review of any federal regulations that may impact the association or the hobby with the inclusion of any new technology, and/or on the impact of said technology on TRA insurance coverage.

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~~6.1.6.~~ ~~6.1.6.~~ If the requested technology is introduced, the TRC shall recommend any necessary changes to this code to safely introduce said technology for Tripoli Research use.

~~6.1.7.~~ ~~6.1.7.~~ Any new technology approved shall be used in accordance with this code and any future requirements that may be added to this code.

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7. Tripoli Research Launches

7.1. Participation Note: The information provided below identifies the minimum requirements for individuals that participate / attend Tripoli Research Launches. A Launch Director has the discretion to increase these requirements through prior notice with a Launch Announcement and exclude some of the categories of individuals that would normally be allowed to participate/attend during Tripoli Research Activities.

Participation and Access at Tripoli Research Launches shall be limited to the following:

7.2.1. Members of Tripoli in good standing and 18 years of age or older may access and conduct flights from the Research / High Power Launch Area and/or Model Rocket Launch Area.

7.2.2. Members of the National Association of Rocketry in good standing and 18 years of age or older may access and conduct flights from the Research / High Power Launch Area and/or Model Rocket Launch Area in the US or Canada. However, they are limited to their certification level and the use of only Certified Motors. NAR Member's flights shall comply with all requirements of NAR Safety Code. NAR Members shall comply with the safe distances established by this code.

7.2.3. Non-Tripoli Members age 18 and over that are students of an accredited educational institution may participate in joint projects with Tripoli members. These individuals are allowed in the High Power Launch Area if escorted by an HPR Flier or Model Rocket Launch Area if escorted by an Adult Flier. The maximum number of nonmember participants shall not exceed five (5) per supervising flier.

7.2.4. Tripoli Junior Members that have successfully completed the Tripoli Mentoring Program training may access and conduct flights from the Research / High Power Launch Area and/or Model Rocket Launch Area in accordance with the rules of the Tripoli Mentoring Program under the direct supervision of a Tripoli Senior Member. The Tripoli Senior member may provide supervision for up to five(5) individuals that have successfully completed the Tripoli Mentoring Program Training at a time.

7.2.5. Children younger than 18 years of age that have not completed the Tripoli Mentoring Program may access and conduct flights from the Model Rocket Launch Area under the direction of an Adult Flier. These individuals are not allowed in the Research / High Power Launch Areas except for recovery of rockets launched from the Model Rocket Launch Area and only then if the Research / High Power Launch Area is open and no rockets are being launched from there.

7.2.6. Named Insured individuals approved by Tripoli Insurance may access and conduct flights from the Model Rocket Launch Area under the direction of a Senior Tripoli Member. These individuals are not allowed in the Research / High Power Launch Areas except for recovery of rockets launched from the Model Rocket Launch Area and only then if the Research / High Power Launch Area is open and no rockets are being launched from there.

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7.2.7. Access by Non-Tripoli Members (Invited Guests and Spectators)

7.2.7.1. An invited guest (including non-Tripoli members of a group project) may be permitted in the Model Rocket Launch Area and preparation areas upon approval of the RSO but shall not be present at the High Power / Research launch area (except as allowed in 7.2.2).

7.2.7.2. Spectators, who are not invited guests, shall confine themselves to the spectator areas as designated by the RSO and shall not be present in the Research / High Power Launch Area or Model Rocket Launch Area.

7.2. Tripoli Research Launch Operations

7.3.1. Rockets may be launched from the Research / High Power Launch Areas only after verification that Children and other Named Insured individuals are not in the Research / High Power Launch Areas.

7.3.2. All flights and static tests conducted by the member shall be within the member's certification level, with the exception of permitted TRA or NAR flyer certification attempts, using certified rocket motors.

7.1. ~~7.3.3.~~ Tripoli Launch Operations

7.1.1. All flights and static tests that use research motors shall be conducted by Tripoli members who are Tripoli certified level 2 or higher.

7.3.4. The member shall provide proof of membership and certification status by presenting their membership card to the LD or RSO upon request.

7.1.2. ~~7.3.5.~~ A person who makes the research motor(s) for a Tripoli Research group project may do so only if he/she is an official they are a member of said group, and may collect only the costs (without profit) for materials used to produce the motor(s) for use in the group project.

7.3.6. The person who makes the research motor(s) for a Tripoli Research group project shall be physically present at that Tripoli Research group project flight, and shall retain possession of the rocket motor(s) for the group project until such time as the motor(s) are installed.

~~7.3.7.2.~~ Prohibitions

7.2.1. ~~7.4.1.~~ Research motors shall not be used for certification flights.

7.2.2. ~~7.4.2.~~ Research motors shall not be fabricated of steel or other frangible materials (e.g. PVC).

7.2.2.1. ~~7.4.2.1.~~ Cases (including hybrid cylinders), front and rear closures, and nozzles shall not be fabricated of steel.

7.2.2.2. ~~7.4.2.2.~~ Screws, washers, compression rings and related closures, and sealing devices shall be exempt from requirement 7.4.2.1.

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~~7.4.3. No range activity shall be conducted when a thunderstorm has been sighted within ten miles or less of the launch site or if audible thunder or lightning is present.~~

7.4.7.3. Distances

~~7.3.1. 7.5.1. The maximum launch altitude for flights containing research motors shall be 90% of the waiver authorized altitude established for the launch.~~

~~7.5.1.1. The BOD may waive this requirement when it can be demonstrated (by past performance, actual thrust curves, etc.) that the performance of the motor(s) to be used shall not exceed the limits of the waiver.~~

~~7.5.1.2. Computer simulations without actual thrust data derived from one or more actual test stand firings shall not satisfy the requirements of 7.5.1.1~~

~~7.5.2. The minimum safe standoff distance from the spectator area for the Model Rocket Launch Area shall be 50 feet (15 meters).~~

~~7.3.2. 7.5.3. The minimum safe standoff distance from the spectator and Model Rocket Launch Area for any research / high power flight and / or static test shall be per the distance table below.~~

Research / High Power Launch Area Safe Standoff Distances

| Total Installed Impulse, N-s | | Motor type | Non-Complex | | Complex | |
|------------------------------|---------|------------|-------------|--------|---------|--------|
| | | | feet | meters | feet | meters |
| 0.01 to | 1,280 | A-J | 200 | 61 | 250 | 76 |
| 1,280.01 to | 2,560 | K | 250 | 76 | 350 | 107 |
| 2,560.01 to | 5,120 | L | 300 | 92 | 500 | 153 |
| 5,120.01 to | 10,240 | M | 500 | 153 | 1,000 | 305 |
| 10,240.01 to | 20,480 | N | 1,000 | 305 | 1,500 | 457 |
| 20,480.01 to | 40,960 | O | 1,500 | 457 | 2,000 | 610 |
| 40,960.01 to | 890,000 | P-T | 2,000 | 610 | 2,500 | 762 |

~~7.5.3.1. Each rocket participating in a mass launch (more than 3 rockets simultaneously) shall be at least twice the safe distance for that rocket's total installed impulse. (This is not applicable to members of NAR. If they participate in a Mass Launch at a Research Launch, that mass launch shall comply with the requirements of NFPA 1127).~~

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Tripoli Research Safety Code

~~7.5.3.2. The Launch Director or Range Safety Officer may, at their discretion, require greater standoff distances.~~

7.5. Tripoli Certifications

~~7.6.1. Tripoli certification flights shall be permitted at Tripoli Research launches only for fliers using certified motors.~~

7.6. Launch Director and Range Safety Officer

~~7.7.1. The LD/RSO may, for any reason, refuse to allow the launch or static testing of any rocket motor or rocket that he or she deems to be unsafe.~~

~~7.7.2. Decisions of the Launch Director and/or the Range Safety Officer shall, in every case, be final.~~

7.7-7.4. Approved Motors

~~7.4.1. 7.8.1. Research Motors, Certified Motors, Expired Certified Motors and Commercial Motors Approved for Research Use Only shall be allowed at a Tripoli Research Launches.~~

~~7.4.2. 7.8.2. Members of NAR that/who are not members of TRA shall be limited to the use of Certified Motors only.~~

~~7.4.3. 7.8.3. Rockets containing a total impulse of more than 40,960 N-s shall not be flown without prior review/approval of the Tripoli Class 3 committee.~~

7.8. Recovery

~~7.9.1. A rocket shall be launched only if it contains a recovery system that is designed to return all parts of the rocket to the ground intact and at a landing speed at which the rocket does not present a hazard.~~

~~7.9.1.1. Rockets that employ passive recovery (e.g. tumble recovery, aero braking) need not employ an electronically actuated recovery system.~~

~~7.9.1.2. Increased descent rates for Class 3 Rocket activities conducted at the Black Rock Desert venue are acceptable if needed to ensure a controlled descent to remain inside the FAA approved Dispersion Area.~~

8. Waived Rules and Exceptions

8.1. Application for Waiver or Exceptions

~~8.1.1. 8.1.1. Any provision of this code waived or excluded by the BOD shall be on a case-by-case basis.~~

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Tripoli Research Safety Code

~~8.1.2.~~ ~~8.1.2.~~ Application for exceptions to any provision of this code shall be submitted in writing to the BOD at least 30 days prior to the activity covered by the exception.

~~8.1.3.~~ ~~8.1.3.~~ In the event that BOD approval for waiver or exclusion from any provision of this code is granted, said approval shall apply only to a single event, at a single location.

Research / High Power Launch Area Safe Standoff Distances

| <u>Total Installed Impulse, N-s</u> | | <u>Motor type</u> | <u>Non-Complex</u> | | <u>Complex</u> | |
|-------------------------------------|----------------|-------------------|--------------------|---------------|----------------|---------------|
| | | | <u>feet</u> | <u>meters</u> | <u>feet</u> | <u>meters</u> |
| <u>0.01 to</u> | <u>1,280</u> | <u>A-J</u> | <u>200</u> | <u>61</u> | <u>250</u> | <u>76</u> |
| <u>1,280.01 to</u> | <u>2,560</u> | <u>K</u> | <u>250</u> | <u>76</u> | <u>350</u> | <u>107</u> |
| <u>2,560.01 to</u> | <u>5,120</u> | <u>L</u> | <u>300</u> | <u>92</u> | <u>500</u> | <u>153</u> |
| <u>5,120.01 to</u> | <u>10,240</u> | <u>M</u> | <u>500</u> | <u>153</u> | <u>1,000</u> | <u>305</u> |
| <u>10,240.01 to</u> | <u>20,480</u> | <u>N</u> | <u>1,000</u> | <u>305</u> | <u>1,500</u> | <u>457</u> |
| <u>20,480.01 to</u> | <u>40,960</u> | <u>O</u> | <u>1,500</u> | <u>457</u> | <u>2,000</u> | <u>610</u> |
| <u>40,960.01 to</u> | <u>890,000</u> | <u>P-T</u> | <u>2,000</u> | <u>610</u> | <u>2,500</u> | <u>762</u> |

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Font: Times New Roman

Page 1: [87] Formatted **BoD** **4/05/2017 23:24:00**

Font: +Body (Calibri), 20 pt

Page 1: [88] Formatted **BoD** **4/05/2017 23:24:00**

Header, Indent: Left: 0 cm, Space After: 0 pt

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| Page 1: [89] Formatted | BoD | 4/05/2017 23:24:00 |
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Font: 20 pt

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Header, Indent: Left: 0 cm

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Footer, Left, Indent: Left: 0 cm

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| Page 6: [92] Formatted | BoD | 4/05/2017 23:24:00 |
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Indent: Left: 1.23 cm, Space After: 0 pt

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| Page 6: [93] Formatted | BoD | 4/05/2017 23:24:00 |
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| Page 6: [94] Formatted | BoD | 4/05/2017 23:24:00 |
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List Paragraph, Outline numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0 cm + Indent at: 1.03 cm

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List Paragraph, Outline numbered + Level: 2 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.62 cm + Indent at: 1.65 cm

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| Page 6: [100] Formatted | BoD | 4/05/2017 23:24:00 |
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List Paragraph, Outline numbered + Level: 3 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

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Page 6: [102] Formatted **BoD** **4/05/2017 23:24:00**

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List Paragraph, Outline numbered + Level: 2 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.62 cm + Indent at: 1.65 cm

Page 6: [104] Formatted **BoD** **4/05/2017 23:24:00**

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Page 6: [105] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Outline numbered + Level: 3 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

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Page 6: [107] Formatted **BoD** **4/05/2017 23:24:00**

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Page 6: [108] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Space After: 6.85 pt, Outline numbered + Level: 2 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.62 cm + Indent at: 1.65 cm

Page 6: [109] Formatted **BoD** **4/05/2017 23:24:00**

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Page 6: [110] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Outline numbered + Level: 3 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

Page 6: [111] Formatted **BoD** **4/05/2017 23:24:00**

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Page 6: [113] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Outline numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0 cm + Indent at: 1.03 cm

Page 6: [114] Formatted **BoD** **4/05/2017 23:24:00**

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Page 6: [115] Formatted **BoD** **4/05/2017 23:24:00**

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Page 6: [116] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Outline numbered + Level: 2 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.62 cm + Indent at: 1.65 cm

Page 6: [117] Formatted **BoD** **4/05/2017 23:24:00**

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Page 6: [118] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Indent: Left: 1.24 cm, Hanging: 1.29 cm, Outline numbered + Level: 3 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

Page 6: [119] Formatted **BoD** **4/05/2017 23:24:00**

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Footer, Left, Indent: Left: 0 cm

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| Page 9: [125] Formatted | BoD | 4/05/2017 23:24:00 |
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List Paragraph, Indent: Left: 1.25 cm, Space After: 7.75 pt, Outline numbered + Level: 3 +
Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

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Font: Times New Roman, 14 pt, Bold

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| Page 9: [129] Formatted | BoD | 4/05/2017 23:24:00 |
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Font: (Default) Times New Roman, 14 pt, Bold, Font color: Auto

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| Page 9: [130] Formatted | BoD | 4/05/2017 23:24:00 |
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List Paragraph, Indent: Left: 0.63 cm, Hanging: 1.44 cm, Outline numbered + Level: 2 + Numbering
Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.62 cm + Indent at: 1.65 cm, Tab stops:
1.59 cm, Left

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| Page 9: [132] Formatted | BoD | 4/05/2017 23:24:00 |
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List Paragraph, Indent: Left: 1.27 cm, Space After: 7.75 pt, Outline numbered + Level: 3 +
Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

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Page 9: [134] Formatted **BoD** **4/05/2017 23:24:00**

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Page 9: [135] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Indent: Left: 1.23 cm, Hanging: 1.31 cm, Space After: 7.75 pt, Outline numbered + Level: 3 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

Page 9: [136] Formatted **BoD** **4/05/2017 23:24:00**

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Page 9: [137] Formatted **BoD** **4/05/2017 23:24:00**

Font: Times New Roman, 14 pt, Bold

Page 9: [138] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Space After: 7.75 pt, Outline numbered + Level: 4 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.85 cm + Indent at: 3.12 cm

Page 9: [139] Formatted **BoD** **4/05/2017 23:24:00**

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Page 9: [140] Formatted **BoD** **4/05/2017 23:24:00**

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Page 9: [141] Formatted **BoD** **4/05/2017 23:24:00**

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Page 9: [142] Formatted **BoD** **4/05/2017 23:24:00**

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Page 9: [143] Formatted **BoD** **4/05/2017 23:24:00**

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Page 9: [144] Formatted **BoD** **4/05/2017 23:24:00**

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Page 9: [145] Formatted **BoD** **4/05/2017 23:24:00**

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Page 1: [146] Formatted **BoD** **4/05/2017 23:24:00**

Footer, Left, Indent: Left: 0 cm

Page 10: [147] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Space After: 7.75 pt, Outline numbered + Level: 3 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

Page 10: [148] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [149] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [150] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [151] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Space After: 7.75 pt, Outline numbered + Level: 3 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

Page 10: [152] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [153] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [155] Formatted **BoD** **4/05/2017 23:24:00**

Font: Times New Roman, 14 pt

Page 10: [156] Formatted **BoD** **4/05/2017 23:24:00**

Indent: Left: 0 cm, Space After: 0 pt

Page 10: [157] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [158] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [159] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [160] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [161] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [162] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [163] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [164] Formatted **BoD** **4/05/2017 23:24:00**

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Page 10: [165] Formatted **BoD** **4/05/2017 23:24:00**

Font: Times New Roman, 14 pt

Page 10: [166] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Indent: Left: 1.23 cm, First line: 0 cm, Space After: 0 pt

Page 1: [167] Formatted **BoD** **4/05/2017 23:24:00**

Footer, Left, Indent: Left: 0 cm

Page 11: [168] Formatted **BoD** **4/05/2017 23:24:00**

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Page 11: [169] Formatted **BoD** **4/05/2017 23:24:00**

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Page 11: [170] Formatted **BoD** **4/05/2017 23:24:00**

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Page 11: [171] Formatted **BoD** **4/05/2017 23:24:00**

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Page 11: [172] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Outline numbered + Level: 3 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

Page 11: [173] Formatted **BoD** **4/05/2017 23:24:00**

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Page 11: [174] Formatted **BoD** **4/05/2017 23:24:00**

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Page 11: [176] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Space After: 0 pt, Outline numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0 cm + Indent at: 1.03 cm

Page 11: [177] Formatted **BoD** **4/05/2017 23:24:00**

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Page 11: [178] Formatted **BoD** **4/05/2017 23:24:00**

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Page 11: [179] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Indent: Left: 0.63 cm, Hanging: 1.11 cm, Space After: 7.3 pt, Outline numbered + Level: 2 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.62 cm + Indent at: 1.65 cm

Page 11: [180] Formatted **BoD** **4/05/2017 23:24:00**

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Page 11: [181] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Space After: 7.3 pt, Outline numbered + Level: 3 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1.23 cm + Indent at: 2.5 cm

Page 11: [182] Formatted **BoD** **4/05/2017 23:24:00**

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Footer, Left, Indent: Left: 0 cm

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Page 12: [185] Formatted **BoD** **4/05/2017 23:24:00**

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Page 12: [186] Formatted **BoD** **4/05/2017 23:24:00**

Font: Times New Roman, 14 pt

Page 12: [187] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Indent: Left: 1.23 cm, First line: 0 cm, Space After: 0 pt

Page 12: [188] Formatted **BoD** **4/05/2017 23:24:00**

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Page 12: [189] Formatted **BoD** **4/05/2017 23:24:00**

List Paragraph, Indent: Left: 2.5 cm