

TEAM AMERICA ROCKETRY CHALLENGE 2017
QUALIFYING/SELECTION FLIGHT DEMONSTRATION

TEAM'S SCHOOL/ORGANIZATION: Explorer Post 1010

AIA TEAM NUMBER: 17-2662 ADULT ADVISOR: Bob Ekman

DATE OF THIS FLIGHT: 3/18/17 QUALIFICATION ATTEMPT # (Circle) 1 **(2)** 3

MINIMUM FLIGHT REQUIREMENTS (ALL MUST BE CIRCLED "YES" OR THE FLIGHT IS DQ)

- Did this rocket weigh less than 650 gm at takeoff, with egg and motors, and was it 650mm or more long? **(YES)** / NO
- Did it use two different-diameter body tubes, each 6 or more inches in length, with the rear one being no more than 1.65 inches diameter (BT-60)? **(YES)** / NO
- Did it use motors from the TARC approved list containing a total of no more than 80 N-sec total impulse? **(YES)** / NO
- Did it contain one Grade A large, raw hen's egg, and a TARC-approved altimeter? **(YES)** / NO
- Did this rocket make a safe flight and recovery under the TARC 2017 rules & NAR Safety Code? **(YES)** / NO
- Did the egg and altimeter section fully separate from the rest of the rocket and land without any human intervention? **(YES)** / NO
- Did the egg carried by the rocket remain uncracked after the flight? **(YES)** / NO

SCORING

TIMER # 1 (NAR OBSERVER):	<u>39</u> . <u>50</u> SEC HUNDREDTHS	OR	EXCESS ABOVE 43.00 SEC:	— . —	+
TIMER # 2 (OTHER ADULT):	<u>39</u> . <u>81</u> SEC HUNDREDTHS		MULTIPLY EXCESS BY 4:	— . —	
AVERAGE TIME:	<u>39</u> . <u>65</u> SEC HUNDREDTHS		SHORTFALL BELOW 41.00 SEC:	<u>1</u> . <u>35</u>	+
ALTIMETER ALTITUDE:	<u>782</u> FEET		MULTIPLY SHORTFALL BY 4:	<u>5</u> . <u>40</u>	+
			DIFFERENCE FROM 775 FEET:	<u>7</u>	+
			(NO NEGATIVES)		
			FINAL SCORE (SUM)	<u>12.40</u>	
			Put <u>only</u> "DQ" if any answers above are "no"		

SUPERVISING TEACHER/ADULT CERTIFICATION

I certify that the student members of this team designed, built, and flew this rocket without my assistance and, to the best of my knowledge, without the assistance of any other adult or any person not on the team. I also certify that no more than the allowed number of official qualification flight attempts were made by this team, and that the team information on file at AIA is current. I understand that team membership can no longer be changed and only team members on file at AIA with valid parent consent forms are eligible to receive prizes.

SIGNATURE: [Signature] PRINT NAME: Robert Ekman

ADULT N.A.R. MEMBER OBSERVER CERTIFICATION

I certify that I am a Senior NAR member who personally observed this flight, and the above initials and scores are mine, based on my observations. I certify that I am not related to any team members or affiliated with their school or non-profit organization, that this flight was conducted in compliance with the rules of the Team America competition, and that this flight was declared to me to be an official qualification flight before its liftoff.

SIGNATURE: [Signature] PRINT NAME: JONATHAN RAINS PHONE: 301-589-7562
 NAR NUMBER: 13911 CITY, STATE: SILVER SPRING MD EMAIL: j rains @ com cert met

**SUBMIT USING TARC PORTAL (preferred, successful flights only), FAX TO 703-358-1134,
 OR E-MAIL SCANNED COPY TO QualificationFlights@aia-aerospace.org
 NO LATER THAN MIDNIGHT (EST) APRIL 3, 2017****
 Team sends in form if flight successful, NAR observer sends in form for unsuccessful flights.**