

**TEAM AMERICA ROCKETRY CHALLENGE 2019**  
**QUALIFYING/SELECTION FLIGHT DEMONSTRATION**

TEAM'S SCHOOL/ORGANIZATION: Explorer Post 1010 Team 2

AIA TEAM NUMBER: 5180 ADULT ADVISOR: Robert Ekman

DATE OF THIS FLIGHT: 4/8/2019 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 eggs and motors, and was it 650mm or more long? **YES** / NO
- Did it use two separating parts with the part containing the eggs and altimeter equipped with two or more parachutes that were the same shape and within 50 mm (2 inches) of the same diameter? **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 three Grade A large, raw hen's eggs, and a TARC-approved altimeter? **YES** / NO
- Did this rocket make a safe flight and recovery under the TARC 2019 rules & NAR Safety Code? **YES** / NO
- Did the payload capsule land with 2 or more parachutes out of the body and without any human intervention? **YES** / NO
- Did all 3 of the eggs carried by the rocket remain uncracked after the flight? **YES** / NO

**SCORING**

TIMER # 1 (NAR OBSERVER):	<u>46 . 62</u> SEC HUNDREDTHS	OR	EXCESS ABOVE 46.00 SEC:	<u>0 . 42</u>	
TIMER # 2 (OTHER ADULT):	<u>46 . 21</u> SEC HUNDREDTHS		MULTIPLY EXCESS BY 4:	<u>1 . 68</u>	
AVERAGE TIME:	<u>46 . 42</u> SEC HUNDREDTHS		SHORTFALL BELOW 43.00 SEC:	<u>   </u>	+
NEGATIVES)			MULTIPLY SHORTFALL BY 4:	<u>   </u>	+
ALTIMETER ALTITUDE:	<u>853 851</u> FEET AWZ		DIFFERENCE FROM 856 FEET:	<u>35</u>	+
			(NO AWZ)	<u>0 . 68</u>	+
			<b>FINAL SCORE (SUM)</b>	<u>4 . 68</u>	AWZ
			<b>Put only "DQ" if any answers above are "no"</b>		

**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: Robert Ekman 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: Vincent Cambreco PRINT NAME: Vincent Cambreco PHONE: 301-330-6632

NAR NUMBER: 106873 CITY, STATE: Rockville, MD EMAIL: Vincent.Cambreco@Gmail.com

**SUBMIT USING ONLINE PORTAL AT [PORTAL.ROCKETCONTEST.ORG](http://PORTAL.ROCKETCONTEST.ORG) (Successful flights only)**  
**OR E-MAIL SCANNED COPY TO [QualificationFlights@aia-aerospace.org](mailto:QualificationFlights@aia-aerospace.org)**  
**NO LATER THAN MIDNIGHT (EST) APRIL 8, 2019\*\*\*\***

**Team sends in form if flight successful, NAR observer sends in form for unsuccessful flights.**