

**2017 SOLAR CAR CHALLENGE
OFFICIAL REGISTRATION DOCUMENT**

Part I: Team Information

Team Name: _____

Address: _____
_____ Zip _____

Phone: () _____ -

Team Sponsor: _____

Sponsor Information Address: _____
_____ Home phone () _____
E-mail: _____ **CRITICAL!**

Team Captain _____

Captain Information Address: _____
_____ Home phone: () _____
E-mail: _____

Name of Vehicle: _____

Team Members: (attach a separate sheet)

School Name _____
School Address: _____
_____ Phone: () _____

Part III: Data Sheets:

Please attach the following to this application:

Documents that must accompany the Registration Document

(1) **Mechanical Drawings:** Complete, detailed drawing(s) showing the mechanical structure of the vehicle. This should be drawn with a drafting program such as *Solid Edge* for clarity and is not limited to one page. The drawing(s) must include crush zones, frame structure, and overall dimensions in three views (front, side, top). Dimensions should be labeled on each drawing. Crush zones must be explicitly labeled in the drawings. Drawings that fail to show adequate “360 degree crush zones” will result in disqualification for the team.

(2) **Electrical Schematics:** A complete, detailed schematic and wiring diagram showing the electrical layout of the vehicle. This schematic must include but does not need to be limited to all the wiring for the propulsion, solar, instrument, and battery systems.

(3) **Team Photo** in digital format of at least 1500x2100 pixels and in color. This photo must be emailed to lehmanm743@aol.com. The photo may be updated up to June 1, 2017.

(4) **Manufacturer’s data sheets for the propulsion system batteries**, including, but not limited to voltage per battery, capacity per battery, weight of each battery, and its chemistry type (lead-acid, or otherwise). If batteries are not lead-acid, include manufacturer’s data sheets for an appropriate battery management system.

(5) **Manufacturer’s data sheets for the solar cells** you intend to use, including, but not limited to the size of each solar cell, the efficiency rating, the number of watts per cell, and the list price of each solar cell.

(6) **Manufacturer’s data sheets** for motor, controller, main fuse, disconnect switches, braking system, & wheels.

Please note that these diagrams and plans do not have to be your final work product. We understand that a solar car is always a “work in progress.” Your Registration Documents may be amended up to June 1, 2017. It is highly recommended that teams keep a copy of all submitted documents on hand during Scrutineering.

Part IV: Team Information

Team Members: ***Team Member names MUST be typed!***

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Team Drivers

_____	_____
_____	_____

Chaperones:

Part V: Timeliness

To avoid penalties, please be sure that your Official Registration Document and \$1,000 filing fee are filed (postmarked) no later than March 1, 2016. A late fee of \$250 will be applied to teams filing after March 1st. No registrations will be accepted after March 15, 2017.