

Louisiana Region V Science and Engineering Fair 2018 Display and Safety Regulations

CHECKLIST

Refer to 2016 ISEF Rules and Guidelines for details/specifics **The Display and Safety Committee (DSC) is the final authority on display and safety issues**

- ❑ Maximum project size: W 48" x D 30" x H *108" (*Height must include table height, so board/project cannot exceed 74"*)

- ❑ **Items required to be displayed on project board or in front of project:**
 - ✓ Original of Official Abstract and Certification
 - ✓ Signed project set-up approval card (received on-site at the Fair; will be taped to table)
 - ✓ Photograph image credits, if appropriate

- ❑ **All forms are required to be at the project but not displayed, including, but not limited to:**
 - ✓ Checklist for Adult Sponsor (1)
 - ✓ Student Checklist (1A)
 - ✓ Research Plan, Approval Form (1B)
 - ✓ Human Participants Form (4)

Forms must be available if requested by a judge or other fair official.

- ❑ **Items NOT allowed at the display:**
 - ✓ Living organisms, including plants
 - ✓ Soil, sand, rock and/or waste samples even if permanently encased in a slab of plastic
 - ✓ Taxidermy specimens or parts
 - ✓ Preserved vertebrate or invertebrate animals
 - ✓ Human or animal food
 - ✓ Human/animal parts or body fluids (for example, blood, urine)
 - ✓ Plant materials (living, dead, or preserved) that are in their raw, unprocessed, or non-manufactured state (Exception: manufactured construction materials used in building the project or display)
 - ✓ All chemicals including water (Exceptions: water integral to an enclosed, sealed apparatus.)
 - ✓ All hazardous substances or devices [for example, poisons, drugs, firearms, weapons, ammunition, reloading devices, and lasers (as indicated in item 5 in the section of these rules entitled "Allowed at Project or in Booth BUT with the Restrictions Indicated")]
 - ✓ Dry ice or other sublimating solids
 - ✓ Sharp items (for example, syringes, needles, pipettes, knives)
 - ✓ Flames or highly flammable materials
 - ✓ Batteries with open-top cells
 - ✓ **Awards, medals, business cards, flags, logos, CD's, DVDs, flash drives, brochures, booklets, nor endorsements, and/or acknowledgments** (graphic or written) unless the item(s) are an integral part of the project (Exception: Intel ISEF medal(s) may be worn at all times.)
 - ✓ Photographs or other visual presentations depicting vertebrate animals in surgical techniques, dissections, necropsies, or other lab procedures
 - ✓ Postal addresses, world wide web and email addresses, telephone and fax numbers of Finalists
 - ✓ Active Internet or e-mail connections as part of displaying or operating the project at the Intel ISEF
 - ✓ Prior years' written material or visual depictions on the vertical display board. [Exception: the project title displayed in the Finalist's booth may mention years or which year the project is (for example, "Year Two of an Ongoing Study")]. Continuation projects must have the Continuation Project Form (7) vertically displayed.
 - ✓ Glass or glass objects unless deemed by the Display and Safety Committee to be an integral and necessary part of the project (Exception: glass that is an integral part of a commercial product such as a computer screen)

- ✓ Any apparatus deemed unsafe by the Scientific Review Committee, the Display and Safety Committee, or Society for Science & the Public (for example, large vacuum tubes or dangerous ray-generating devices, empty tanks that previously contained combustible liquids or gases, pressurized tanks, etc.)
- ❑ **Items allowed BUT with restrictions:**
 - ✓ Any photograph/visual image/chart/table and/or graph **if:**
 - a. It is not deemed offensive or inappropriate by the Scientific Review Committee, the Display and Safety Committee, or Society for Science & the Public. This includes, but is not limited to, visually offensive photographs or visual depictions of invertebrate or vertebrate animals, including humans. The decision by any one of the groups mentioned above is final.
 - b. It has a credit line of origin ("Photograph taken by..." or "Image taken from..." or "Graph/chart/table taken from..."). (If all images being displayed were taken by the Finalist or are from the same source, one credit line prominently and vertically displayed is sufficient.)
 - c. It is from the Internet, magazines, newspapers, journals, etc., and credit lines are attached. (If all photographs, etc. are from the same source, one credit prominently and vertically displayed is sufficient.)
 - d. It is a photograph or visual depiction of the Finalist.
 - e. It is a photograph or visual depiction for which signed consent forms are at the project or in the booth.
 - ✓ Any apparatus with unshielded belts, pulleys, chains, or moving parts with tension or pinch points **if for display only and not operated.**
 - ✓ Any demonstration for judges or the public must be performed within the maximum size of the project permitted, an area 30"(Depth) by 48"(Width) by 74" (Height of table and board not to exceed 108")
 - ✓ Any apparatus producing temperatures that will cause physical burns if adequately insulated
 - ✓ The only items that may be displayed on the front of the provided tables are the forms listed in the section of these rules entitled "Required to be Visible and Vertically Displayed at the Intel ISEF"
- ❑ **Other requirements:**
 - ✓ Finalists must be present at their projects for the Display and Safety inspection. The inspection is a process that takes place between the Finalist and inspector; therefore, no other persons should be present representing the Finalist except for an interpreter if necessary.
 - ✓ Returning items that have been removed through a violation and/or adding items that are not permitted after final clearance by the Display and Safety Committee and the Scientific Review Committee is prohibited.
 - ✓ Society for Science & the Public, the Scientific Review Committee, and/or the Display and Safety Committee reserve the right to remove any project for safety reasons or to protect the integrity of the Intel ISEF and its rules and regulations.
 - ✓ A project data book and research paper are not required but are highly recommended.
 - ✓ *Display of photographs other than that of the finalist must have a photo release signed by the subject, and if under 18 years*
 - ✓ *of age, also by the guardian of the subject. Sample consent text: "I consent to the use of visual images (photos, videos, etc.) involving my participation/my child's participation in this research."*
 - ✓ **Finalists using audio-visual or multi-media presentations (for example, 35mm slides; videotapes; images, graphics, animations, etc., displayed on computer monitors; or other non-print presentation methods) must be prepared to show the entire presentation to the Display and Safety inspectors before the project is approved.**
 - ✓ If a project fails to qualify and is not removed by the Finalist, Society for Science & the Public will remove the project in the safest manner possible but is not responsible for damage to the project.
 - ✓ Any disks, CDs, printed materials, etc. (including unofficial abstracts) designed to be distributed to judges or the public will be confiscated by the Display and Safety Committee and will be discarded immediately.
 - 9. Project sounds, lights, odors, or any other display items must not be distracting.
 - ✓ No food or drinks, except small containers of bottled water for personal consumption, are allowed in the Exhibit Hall.

Regulations Regarding the Use of Electricity and Lasers

Electrical Regulations:

Students will be able to use their battery-powered laptops and other battery-powered equipment at the Region V Fair, as long as the item complies with safety regulations. However, 120 volt A.C. electricity in the exhibit hall will be ***extremely limited***. If a student has a project that requires electricity from a source other than a battery, **you must contact LR5EF 10 days prior to competition to request that your project be placed in an area with an outlet.**

1. Finalists requiring 120 or 220 Volt A.C. electrical circuits must provide a **UL-listed 3-wire extension cord** which is appropriate for the load and equipment.
2. Electrical power supplied to projects and, therefore, the maximums allowed for projects is **120 or 220 Volt, A.C., single phase, 60 cycle**. Maximum circuit amperage/wattage available is determined by the electrical circuit capacities of the exhibit hall and may be adjusted on-site by the Display and Safety Committee. For all electrical regulations, **"120 Volt A.C." or "220 Volt A.C."** is intended to encompass the corresponding range of voltage as supplied by the facility in which the Intel ISEF is being held.
3. All electrical work must conform to the National Electrical Code or exhibit hall regulations. The guidelines presented here are general ones, and other rules may apply to specific configurations. The on-site electrician may review electrical work on any project.
4. All electrical connectors, wiring, switches, extension cords, fuses, etc. must be **UL-listed** and must be appropriate for the load and equipment. Connections must be soldered or made with **UL-listed** connectors. Wiring, switches, and metal parts must have adequate insulation and over-current safety devices (such as fuses) and must be inaccessible to anyone other than the Finalist. Exposed electrical equipment or metal that possibly may be energized must be shielded with a non-conducting material or with a grounded metal box to prevent accidental contact.
5. Wiring not part of a commercially available **UL-listed** appliance or piece of equipment must have a clearly visible fuse or circuit breaker on the supply side of the power source and prior to any project equipment.
6. There must be an accessible, clearly visible on/off switch or other means of disconnect from the **120 or 220 Volt** power source.
7. Any lighting that generates considerable and excessive amounts of heat (high-intensity lamps, halogen lights, etc.) must be turned off when the Finalist is not present.
8. Class II lasers if:
 - a. The output energy is <1 mW and is operated only by the Finalist
 - b. Operated only during the Display and Safety inspection and during judging
 - c. Labeled with a sign reading **"Laser Radiation: Do Not Look into Beam"**
 - d. Enclosed in protective housing that prevents physical and visual access to beam
 - e. Disconnected when not operating

Note: Class II lasers are found in laser pointers and in aiming and range-finding devices. They pose a risk if the beam is directly viewed over a long period of time.

Class III and IV lasers if for display only and not operated (See the description of Class III and Class IV lasers in the Radiation section of the Hazardous Chemicals, Activities, or Devices