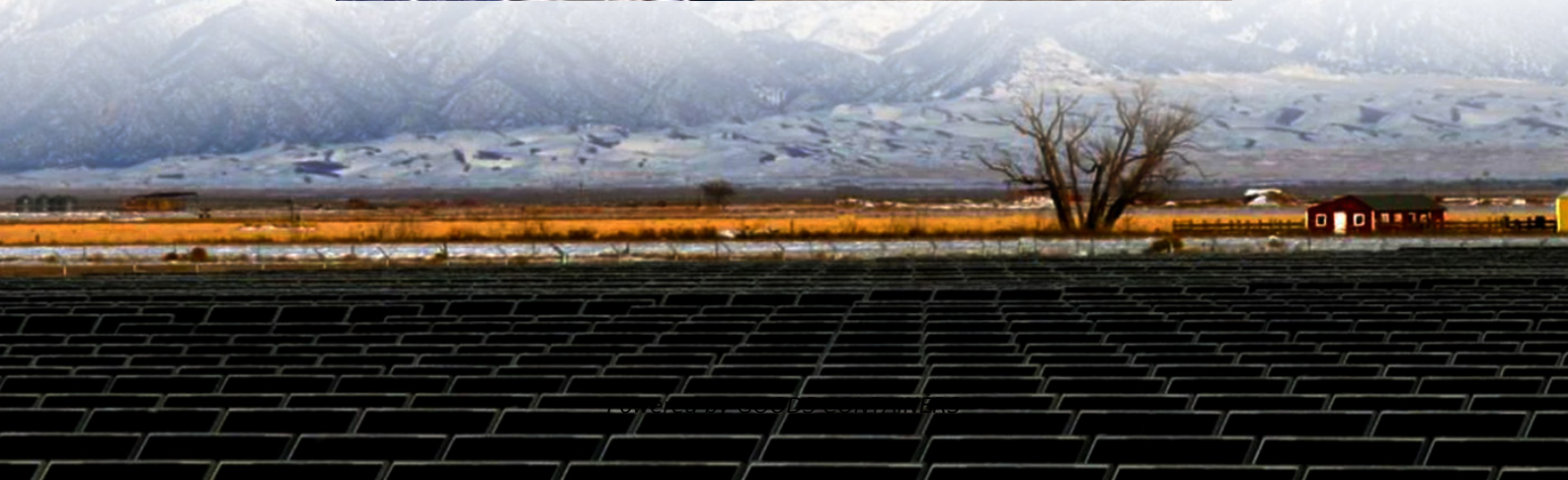


Analysis of the causes of electric shock in solar container communication stations





Overview

What if EV crew is exposed to ISS shock?

In the case of EV crew hazardous exposure to shock due to negative potential, the crewmember must be at a location on the ISS truss with a negative floating potential, and the EMU must make electrical contact with ISS (either directly or indirectly). As stated earlier, crew electrical contact with the EMU interior is assumed.

How does ionospheric space weather affect ISS charging?

The status of the ionospheric space weather, in particular solar activity/storms affects the density, in particular local density that can increase charging and currents. Motional EMF affects ISS charging because of the size of the ISS vehicle, in particular the length of the truss.

What is the ISS charging detection and warning process?

The ISS spacecraft charging detection and warning process identifies possibly hazardous conditions before they occur and advises ISS management in time to activate EVA shock hazard controls as needed .

Why is the energy storage power station a fire hazard?

ng to effectively detect flammable gases, and failing to make timely warnings, resulting in an explosion. The large fire spread of the energy storage power station indicates that the on-site firefighting system failed to control the fire in the first time, and the hand-held fire extinguishing device installed on the site cannot functionate,



Analysis of the causes of electric shock in solar container communication



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Development of Electric Shock Prevention Systems for Photovoltaic Solar

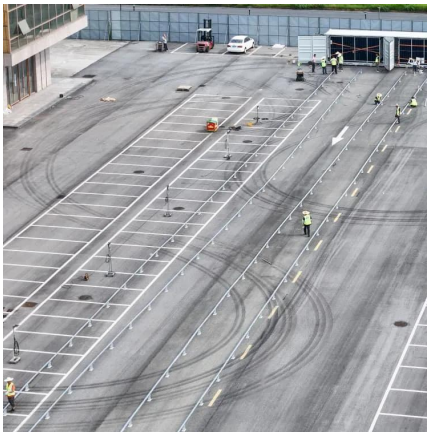
Jun 25, 2021 · Photovoltaic systems (PVSs) have gained popularity as a clean recyclable source of energy because they generate electric power from light irradiation. However, this advantage ...

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controlling extravehicular activity (EVA) crew ...

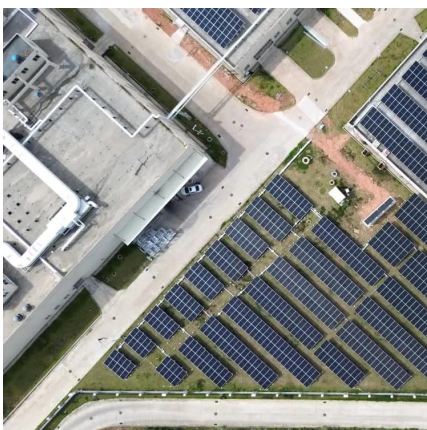


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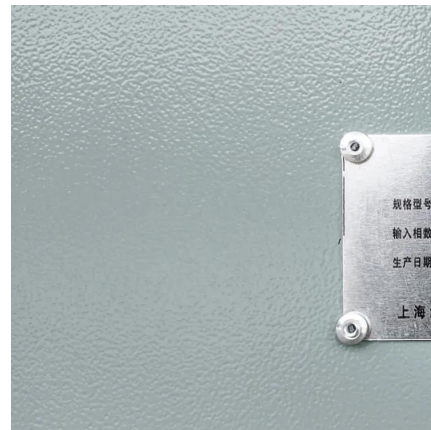
[Technical solution sheet 5.2 Electric shock and ...](#)

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Slide 1

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neuro-physical startle/strong-reflex/pain response (not death) is still possible
Additional Mitigations
Conclusion
3.2.1.2 CLASS R BONDING (HIGH FREQUENCY POTENTIALS, ANTENNAS)
3.2.1.2.3 SPACE STATION STRUCTURE
Dr. Douglas Hamilton/ Wyle Labs
Dr. Steven Koontz/NASA
Dr. Leonard Kramer/Boeing
William Spetch/NASA
Ron Mikatarian/Boeing
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