

# SYSTEMATIC REVIEW OF ISO-11221



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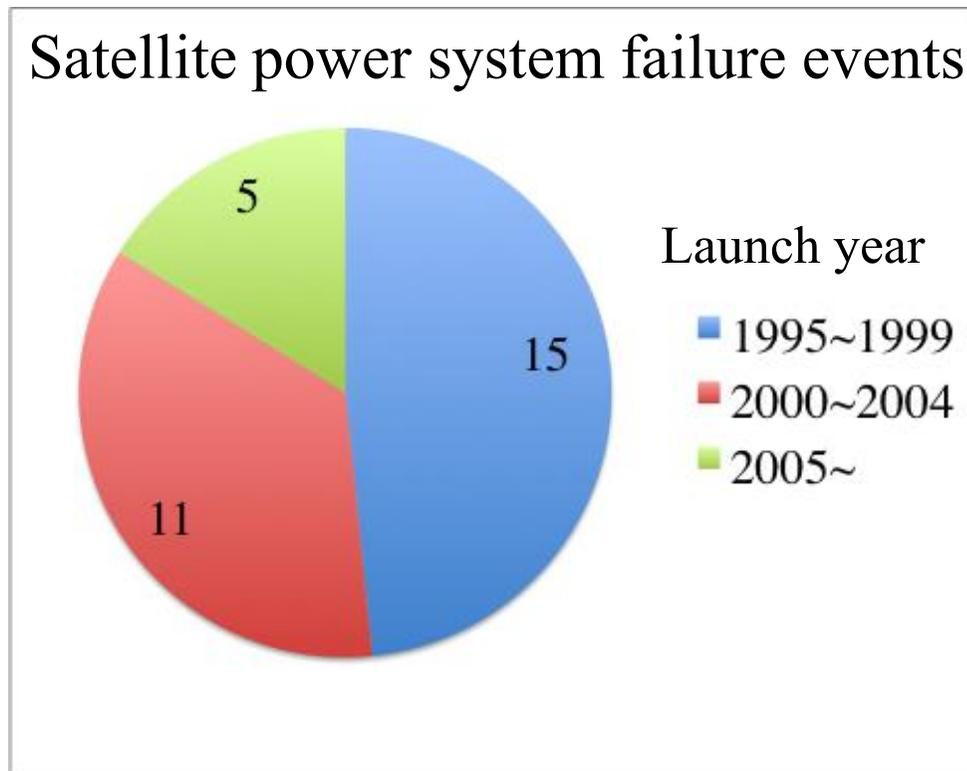
14<sup>th</sup> Spacecraft Charging Technology Conference, ESTEC, Netherland<sup>1</sup>

# ISO-11221

- ISO-11221, “Space systems - Space solar panels - Spacecraft charging induced electrostatic discharge test methods”
- Published on August 1<sup>st</sup>, 2011
- Result of international efforts since 2005 (9<sup>th</sup> SCTC)
- ISO rule
  - Systematic review every 5 years

# Effect of ISO-11221

- Due to advances of knowledge and testing, power system failure is decreasing
- But there are still failures occurring



# Revision procedure

- Around August 2016
  - A ballot sheet and a comment sheet will be circulated to P-member countries of ISO/TC20/SC14
  - Choose one from
    - ***Confirm***: keep the current version for the next five years
    - ***Revise***
    - ***Withdrawal***: abolish the standard
  - Questions
    - Is the standard used in your country?
    - Is the standard adopted to your domestic standard (with or without change)?

# Criteria

- The criteria for confirmation
  - The standard has been adopted with or without change or is used in at least five countries (**when this criteria is not met, the standard should be withdrawn**); and
  - a simple majority of the P members of the committee voting propose confirmation.
- If the voting is not obvious about “Confirm” nor “Withdrawal”
  - SC14/WG1 will decide on the revision process. The revision can start either from CD or DIS.
  - The revision must be finished **within three years.**
  - During the revision process, the current version will stay effective.

# What do we do now?

- The voting for revision will start soon
- Confirm, revise, withdraw?
- We can revise, but there will be no more funding to support the collaborative research works and workshops
  - If we fail to revise by the end of 3 years (2019), ISO-11221 will be withdrawn
  - Do we take the risk?
  - If we take the risk, do we start from
    - CD (need two votes) or DIS (need one vote only)?
    - If editorial or small technical revision only, we start from DIS. If heavy technical revision necessary, we start from CD



# If we revise

- Make a constructive comments
  - Propose revised phrases, sections, chapters
  - Not just say “I don’t like this”.
- Reflect your comments to the comments by the national body to be submitted this summer
- Move the handling to ISO/TC20/SC14/WG4 (environment) from ISO/TC20/SC14/WG1 (design)
- Possible workshop in 2018 in conjunction with 15<sup>th</sup> SCTC
  - But, most of the technical works must be done by then