

Office of Safety and Mission Assurance
Request for Waiver to NPR 1400.1 Requirements for the publication of NPD 8730.2C, NASA
Parts Policy

The Office of Safety and Mission Assurance (OSMA) requests a waiver to two requirements in NPR 1400.1 for the coordination and publication of NPD 8730.2C, NASA Parts Policy:

a. Identification of requirements for which the waiver is requested: OSMA requests a waiver to the following requirements:

Paragraph 3.2.3

3.2.3 Responsible Offices shall not include technical requirements in NASA directives. Technical requirements may be included in NASA technical standards which may then be cited in NASA directives.

Note: Technical requirements are those requirements that discuss the design, performance, operational parameters, and constraints of equipment and systems. These are requirements that would typically be contained within a system or equipment specifications).

Paragraph 3.8.4.j (note: OSMA interprets the intent of this requirement to also apply to Attachments in NPDs)

3.8.4 Responsible Offices shall adhere to the following content requirements when developing NPRs: j. Ensure Appendices do not contain requirements, only supporting information for the NPR.

b. Scope and duration of the waiver: OSMA requests the waiver for the publication of NPD 8730.2C, for the duration of C revision of this NPD.

c. Justification for the waiver:

(1) *Purpose/Rationale for requesting the waiver*. The draft NPD 8730.2C contains technical requirements within Attachment A. These technical requirements are necessary due to the severe risks posed by lead free materials and due to the lack of existing NASA/industry standards addressing these lead-free requirements. Because of the narrative flow of the NPD, the document is easier to read if these detailed technical requirements are placed in the Attachment.

(2) *Whether the application of the requirement in the particular circumstances described would conflict with another requirement*: Approval of this waiver will not conflict with other requirements.

(3) *Whether application of the requirement in the particular circumstances would not achieve, or is not necessary to achieve, the underlying purpose of the requirement*. For this NPD, OSMA believes that separating the technical requirements from the policy directive will not enable us to

ensure the technical requirements get immediate visibility throughout NASA. Lead-free materials can cause the development of tin whiskers and tin pest, resulting in performance degradation and potential premature product failure. There is no other NASA document currently available that addresses these important requirements. OSMA plans to develop an NPR or Technical Standard to address these and other technical quality requirements; however, at this time it is important to promulgate these requirements in a timely manner to control risk and enhance reliability of critical parts (the underlying purpose of NPD 8730.2).

(4) *Any other pertinent data or information related to the waiver request (e.g., cost or schedule considerations).* No other considerations.

(5) *Identification and justification of the acceptance of any additional risk that will be incurred if the waiver is granted.* No risk is identified.

d. Additional rationale for requests for waivers to environment, safety, health, and security requirements: Not applicable. The requirement being waived is not a safety, health or security requirement.