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The Order of Precedence of IPC Documents and Requirements Flowdown



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IPC-A-610 Order of Precedence

Per 610 - In the event of conflict, the following order of precedence applies:

- *Procurement as agreed and documented between customer and supplier.*
- *Master drawing or master assembly drawing reflecting the customer's detailed requirements.*
- *When invoked by the customer or per contractual agreement, IPC-A-610.*
- *When documents other than IPC-A-610 are cited, the order of precedence shall be defined in the procurement documents.*



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J-STD-001 Order of Precedence

Per 001 Rev E

Section 1.7 Order of Precedence

“The contract always takes precedence over this standard, referenced standards and drawings”



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IPC-A-600 Order of Precedence

Per -600 Order of Precedence:

- *Procurement documentation, Purchase Order*
- *Procurement documentation reflecting the customer's detailed requirements.*
- *Other documents specified by customer*
- *End item performance specifications such as the IPC-6010 Series when invoked by customer*
- *This acceptability document*



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IPC-A-600

Order of Precedence

- IPC-6010 series establishes the acceptability requirements for printed boards
- IPC-A-600 is a companion and complementary document, providing pictorial interpretation of these requirements.
- It is not intended to be used as a performance specification for printed board manufacture or procurement.



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IPC/WHMA-A-620 Order of Precedence

Procurement as agreed between User
and Manufacturer

Master Drawing or master assembly
drawing reflecting the User's detailed
requirements

When invoked by the user or per
contractual agreement, IPC/WHMA-
A-620



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IPC/WHMA-A-620 Order of Precedence

- When IPC/WHMA-A-620 is cited as a stand-alone document for inspection and/or acceptance, the requirements of J-STD-001 or IPC-A-610 do not apply unless separately and specifically required.
- When IPC/WHMA-A-620, J-STD-001, IPC-A-610 and/or other related documents are cited, the order of precedence is to be defined in the procurement documents.



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IPC-2221

Order of Precedence

1. The procurement contract
2. The master drawing or assembly drawing
3. This standard
4. Other applicable documents.



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Order of Preference Summary

In all documents:

- Contracts,
- Customer documentation
- Other documents specified by the customer
- The specification



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Conflicts between Documents



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IPC documents

Assembly Process Document	Product Assurance Documents
001	610
PCB Fabrication	
2221	
6012	600
6013	
6018	
Cables	
620	620



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Order of Preference Conflict per 001

Between 001 and assembly drawing

- Applicable user approved assembly drawings/documents govern

Between Text of 001 and applicable documents cited in 001,

- 001 takes precedence

Between 001 and not approved user documents

- 001 governs



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Order of Preference Conflict per 001

- When 001 is cited or required by contract, the requirements of 610 do not apply unless specifically required by contract.
- When 610 or other documents are cited along with 001, the order of precedence shall be defined in the procurement documents



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Customer Responsibility

- The customer has the ultimate responsibility to specify acceptance criteria.
- If no criteria is specified, required, or cited, then the best manufacturing practice applies.



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Criteria for Classes of Products

Criteria are given for each class in four levels of acceptance:

- Target Condition,
- Acceptable Condition, and either
- Defect Condition or
- Process Indicator Condition.



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Requirement Flowdown

IPC/WHMA-A-620 1.10 J-STD-001, 1.9

- When this standard is contractually required, the applicable requirements of this standard (including product class - see 1.3) **shall [D1D2D3]** be imposed on all applicable subcontracts, assembly drawing(s), documentation and purchase orders



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Clause References

Per J-STD-001, 1.7.2

- When a clause in this document is referenced, its subordinate clauses also apply.



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Use of Notes and Appendices

Notes: are use to expand a thought or explain a point of criteria, or a table, etc.

Appendices: Supplementary material at the end of a book, article, document or other text, usually of an explanatory nature



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Handbooks

IPC-AJ-820 Assembly and Joining Handbook:

- This document provides guidelines and supporting information
- The intent is to explain the “how-to” and “why” information, and fundamentals for these processes.
- Nothing within this handbook is considered mandatory unless otherwise specified in the design or contract documentation.



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Handbooks

J-STD-001 Handbook

Although this Handbook uses mandatory terminology (e.g., **shall**, **must**, etc.), nothing within this Handbook is considered mandatory unless otherwise specified as a mandatory requirement in the contract documentation.



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Conclusions

- The contracts dictate the specific standard to be used to build the product.
- Appendices are supplemental information and are not part of the specifications.
- Handbooks are also supplemental documents explaining the specifics of the specifications.



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Thank You

Questions?



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