SRS Checklist and Requirements Defect Types

Type	**Organization and Completeness**
O1	Are all internal cross-references to other requirements correct?
O2	Are all requirements written at a consistent and appropriate level of detail?
O3	Do the requirements provide an adequate basis for design?
O4	Is the implementation priority of each requirement included?
O5	Are all external hardware, software, and communication interfaces defined?
O6	Have algorithms intrinsic to the functional requirements been defined?
O7	Does the specification include all of the known customer or system needs?
O8	Is the expected behavior documented for all anticipated error conditions?
O9	Are there problems in the organization of the SRS? Are the supporting non-requirement parts of the SRS (e.g., purpose/scope sections, reference sections, etc.) correct and complete?
O10	Are there requirements included which were not requested by the customer?
O11	Is a requirement statement compound – does it contain more than one identifiable requirement?
	Correctness
C1	Do any requirements conflict with or duplicate other requirements?
C2	Is each requirement written in clear, concise, unambiguous language?
C3	Is each requirement verifiable by testing, demonstration, review, or analysis?
C4	Is each requirement in scope for the project?
C5	Is each requirement free from content and grammatical errors?
C6	Is any necessary information missing from a requirement? If so, is it identified as TBD?
C7	Can all of the requirements be implemented within known constraints?
C8	Are any specified error messages unique and meaningful?
	Quality Attributes
Q1	Are all performance objectives properly specified?
Q2	Are all security and safety considerations properly specified?
Q3	Are other pertinent quality attribute goals explicitly documented and quantified, with the acceptable tradeoffs specified?
	Traceability
T1	Is each requirement uniquely and correctly identified?
T2	Is each software functional requirement traceable to a higher-level requirement (e.g., system requirement, use case)?
	Special Issues
S1	Are all requirements actually requirements, not design or implementation solutions?
S2	Are all time-critical functions identified, and timing criteria specified for them?
S3	Have internationalization issues been adequately addressed?
S4	Are there sections related to IEEE 830-1998 that should be included?

Note: This list is based on material from *Peer Reviews in Software by* Karl E. Wiegers (Addison-Wesley, 2001)