Review Form and Checklist

Software Architecture Review:

Project Name: _____
Architect Name: _____
Project Engineer: _____
Customer : _____
Stakeholders: _____
_____
Reviewers: _____
_____

Review Date: _____/_____/_____
Estimated Code Size: _____ K ELOC

Software Quality Attributes:

[ ] Functional Suitability	[ ] Performance	[ ] Maintainability
[ ] Reliability	[ ] Portability	[ ] Usability
[ ] Modifiability	[ ] Modularity	[ ] Extensibility
[ ] Security	[ ] Safety	[ ] Integrity
[ ] Scalability	[ ] Availability	[ ] Interoperability

[ ] RASU (Reliability, Availability, Serviceability, Usability and Installability)
[ ] FURPS (Functionality, Usability, Reliability, Performance and Supportability)
[ ] RASR (Reliability, Availability, Scalability and Recoverability) [databases]
[ ] ACID (Atomicity, Consistency, Isolation (or Integrity) and Durability [databases]
[ ] RAMS (Reliability, Availability, Maintainability and Safety) [safety critical systems]
[ ] Agility (Debug Ability, Extensibility, Portability, Scalability, Securability, Testability & Understandability)
[ ] Dependability (Availability, Reliability, Safety, Integrity and Maintainability)
[ ] Other _____

Key Software Architecture Decisions:

Hardware/Driver/OS

[ ] RTOS/BSPs/Hypervisor: _____
[ ] Bus Communication Card/Drivers: _____
[ ] Database API Drivers: _____
[ ] Graphics Card/Drivers: _____
[ ] Operating Systems: _____
[ ] Hardware Platforms: _____
[ ] Other: _____

Key Software Architecture Decisions (continued):

Software Technology

[ ] IPC Mechanisms: _____
[ ] Bus Communication Protocols: _____
[ ] Persistence Technology: _____
[ ] Graphics Technology: _____
[ ] Programming Languages: _____
[ ] Mixed Language Bindings: _____
[ ] Software Design Methodology: _____
[ ] Other: _____

Key Software Architecture Decisions (continued):

Software Tools

[ ] IPC Development Tools: _____
[ ] Bus Communication Dev Tools: _____
[ ] Database/Persistence Frameworks: _____
[ ] Graphics Dev Tools: _____
[ ] Integrated Dev Environment: _____
[ ] Software Design Tools: _____
[ ] Other: _____

Key Software Architecture Decisions (continued):

Software Reuse Strategy

[ ] Software Processes: _____
[ ] Historical Productivity Data: _____
[ ] Software Design Patterns: _____
[ ] External Software Components: _____
[ ] Internal Software Components: _____
[ ] Software Product Line: _____
[ ] Other: _____

Review Form and Checklist

Architectural Design:

Use Cases

[ ] Use Case Diagrams: _____

Software Components and Interfaces

[ ] Class Diagrams: _____
[ ] Component-Connector Diagrams: _____
[ ] Sequence Diagrams: _____
[ ] Interface Definition Descriptions: _____

Software Component Deployment

[ ] Deployment Diagrams: _____