

Technical Review Checklist

Entry gates, required artifacts, and exit criteria for the four core design reviews. Tick each item as it closes.

<p>AT SRR EXIT</p> <p>Requirements agreed</p> <p>Basis for functional definition – no formal baseline yet</p>	<p>AT SFR EXIT</p> <p>► Functional</p> <p>Placed under Government configuration control</p>	<p>AT PDR EXIT</p> <p>► Allocated</p> <p>Requirements allocated to design items</p>	<p>AT CDR EXIT</p> <p>► Initial Product</p> <p>Detailed build-to design under control</p>
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SRR

System Requirements Review

Confirm the developer understands the system requirements and is ready to begin system design.

EXIT BASELINE

REQUIREMENTS AGREED

<p>› ENTRY GATE</p> <ul style="list-style-type: none"> <input type="checkbox"/> Draft system performance spec / SRD available <input type="checkbox"/> Draft CDD (KPPs/KSAs) and CONOPS provided <input type="checkbox"/> Mission threads / use cases & operating environment defined <input type="checkbox"/> SEP defines SRR scope & criteria; IMP/IMS reflect the event 	<p>☰ REQUIRED ARTIFACTS</p> <ul style="list-style-type: none"> <input type="checkbox"/> System performance spec (SRD) traced to CDD / CONOPS <input type="checkbox"/> Preliminary functional analysis & requirements decomposition <input type="checkbox"/> Bidirectional requirements traceability RTM <input type="checkbox"/> Verification method identified per requirement <input type="checkbox"/> Preliminary risk register; cost & schedule basis 	<p>✓ EXIT CHECKLIST</p> <ul style="list-style-type: none"> <input type="checkbox"/> All performance reqs (explicit + derived) traceable to CDD / KPPs / KSAs <input type="checkbox"/> Verification method assigned to every requirement <input type="checkbox"/> Open issues logged as action items with owners <input type="checkbox"/> Plans & resources in place to proceed to SFR
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SFR

System Functional Review

Verify the functional baseline meets user capability needs and that functional reqs & verification support performance.

EXIT BASELINE

FUNCTIONAL

<p>› ENTRY GATE</p> <ul style="list-style-type: none"> <input type="checkbox"/> SRR action items closed <input type="checkbox"/> System performance spec matured & stable <input type="checkbox"/> System functional decomposition complete <input type="checkbox"/> Draft item (development) performance specs available 	<p>☰ REQUIRED ARTIFACTS</p> <ul style="list-style-type: none"> <input type="checkbox"/> Functional architecture / decomposition to lowest functional level <input type="checkbox"/> Updated system performance spec <input type="checkbox"/> Draft item performance specs <input type="checkbox"/> Updated RTM & verification approach <input type="checkbox"/> Updated risk register 	<p>✓ EXIT CHECKLIST</p> <ul style="list-style-type: none"> <input type="checkbox"/> Functional baseline complete & internally consistent <input type="checkbox"/> Functional reqs traceable to system performance spec <input type="checkbox"/> Verification methods support all performance reqs <input type="checkbox"/> Functional baseline placed under Government CM control <input type="checkbox"/> Plans in place to proceed to PDR
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PDR

Preliminary Design Review

Establish that the preliminary design & architecture are complete and achievable within cost/schedule, with risks mitigated.

EXIT BASELINE
ALLOCATED

> ENTRY GATE

- SFR action items closed
- Allocated requirements (item performance specs) defined
- Preliminary design & architecture documented
- Trade studies completed

☰ REQUIRED ARTIFACTS

- Item performance / development specs (allocated baseline candidate)
- Preliminary design: subsystem definition & architecture
- Interface definitions / ICDs
- Trade study results; updated RTM; verification plans
- Risk register w/ mitigations; prelim R&M, producibility assessment

✓ EXIT CHECKLIST

- Preliminary design meets reqs at acceptable risk within cost/schedule
- Interfaces identified & documented
- Verification methods described for allocated reqs
- Design consistent with validated CDD
- Allocated baseline established; ready for detailed design

CDR

Critical Design Review

Confirm the detailed design is stable, expected to meet performance within cost, and ready for build, integration & test.

EXIT BASELINE
INITIAL PRODUCT

> ENTRY GATE

- PDR action items closed
- Detailed design substantially complete (build-to docs/models)
- Allocated baseline under configuration control

☰ REQUIRED ARTIFACTS

- Detailed design: build-to drawings / models, software design docs
- Updated interface docs / ICDs; full RTM
- Verification & test plans / procedures
- Updated risk register; R&M & safety analyses
- Production, should-cost & affordability inputs
- (MDAP) CDR briefings + product-baseline artifacts to OSD-level SE

✓ EXIT CHECKLIST

- Detailed design stable & expected to meet performance reqs
- On track to affordability / should-cost goals
- Remaining risks acceptable with mitigation plans
- Initial product baseline established
- Ready for fabrication / coding, integration & test

How to use: Reviews are event-driven, not calendar-driven – hold each review only when its entry criteria are met. Entry/exit criteria are tailored and documented in the program SEP (contractor SEMP); items here are the typical minimum set.

Scope: SRR–CDR are four of the lifecycle technical reviews. ASR precedes SRR; SVR/FCA, TRR, PRR, and PCA follow CDR.

Summarized from IEEE 15288.2-2014 & DoD SE Guidebook (DDR&E(AC), Sec. 3). A quick reference – not a substitute for the source standards or your program SEP.