

Design Review Checklist

30/04/17

0.1

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**Control De Versiones**

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| Nombre Del Archivo | Versión | Fecha | Autor | Comentarios |
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**Table C65 C++ PSP2.1 Design Review Checklist**

PROGRAM NAME AND #: Alta De Planes

1. Template de Especificación Funcional
2. Template de Escenario Operacional
3. Template de Especificación de Estados
4. Templates de Especificación Lógica

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| Purpose | To guide you in conducting an effective design review | 1 | 2 | 3 | 4 |
| General | • As you complete each review step, check off that item in the box to the right.  • Complete the checklist for one program unit before you start to review the next unit. | \* | \* | \* | \* |
| Complete | Ensure the requirements, specifications, and high-level design are completely covered by the design:  • All specified outputs are produced.  • All needed inputs are furnished.  • All required includes are stated. | \* | \* | \* | \* |
| State Machine | Verify the state machine design:  • The structure has no hidden traps or loops.  • It is complete; that is, all possible states have been identified.  • It is orthogonal; that is, for every set of conditions there is one and only one possible next state.  • The transitions from each state are complete and orthogonal. That is, from every state, a unique next state is defined for every possible combination of state machine input values. | ***\**** | ***\**** | ***\**** | ***\**** |
| Logic | • Verify that program sequencing is proper:   * Stacks, lists, and so on are in the proper order. * Recursion unwinds properly.   • Verify that all loops are properly initiated, incremented, and terminated. | \* | \* | \* | \* |
| Special Cases | Check all special cases:  • Ensure proper operation with empty, full, minimum, maximum, negative, zero values for all variables.  • Protect against out-of-limits, overflow, underflow conditions.  • Ensure “impossible” conditions are absolutely impossible.  • Handles all incorrect input conditions. | \* | \* | \* | \* |
| Functional Use | • Verify that all functions, procedures, or objects are fully understood and properly used.  • Verify that all externally referenced abstractions are precisely defined. | \* | \* | \* | \* |
| Names | Verify the following.  • All special names and types are clear or specifically defined.  • The scopes of all variables and parameters are self-evident or defined.  • All named objects are used within their declared scopes. | \* | \* | \* | \* |
| Standards | Review the design for conformance to all applicable design standards. | \* | \* | \* | \* |