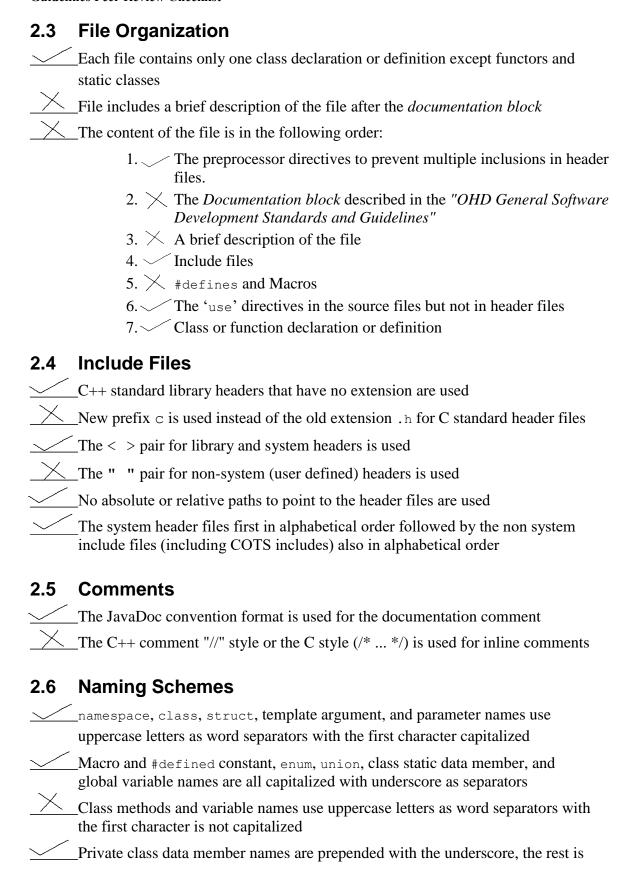
C++ Coding Standards and Guidelines Peer Review Checklist

Last Updated: 25 April 2016

Reviewer's Name:

Peer Review Date:

Project Name:				Proj	Project ID:		
	Enter if applicable						
Developer's			Project L	ead:			
Name:							
Review Files & Source code							
Source code							
Code Approved							
The following check list is to be used in the assessment of C++ source code during a peer review. Items which represent the code being reviewed should be checked. 1. General Programming Standards and Guidelines Refer to the OHD General Programming Standards and Guidelines Peer Review Checklist to assess the adherence to the OHD General Programming Standards and Guidelines. 2. C++ Programming Standards							
2.1 Read	ability and Maintaina	bility	y				
Consistent indentation (3 or 4 spaces)							
Consist	ent use of braces						
No tabs	sused						
2.2 File N	lames						
Header	files and namespace files use	e suff	ixes: .h, .	н, .	nh, .hpp	o, or .hz	ΚX
Source	files use suffixes: .C, .cc, .	cpp, (or .cxx				
UpperM	ixedCase is used for class of	r nam	espace fil	e nan	nes		
lowerM	ixedCase is used for function	n file	names				



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	the same as method names
	_static const data members are all uppercase
<u> </u>	_typedef names reflect the style appropriate to the underlying type
	_Class, struct, variable, and method names that differ by case only are not used
<u> </u>	_C function names follow the OHD C Programming Standards and Guidelines
2.7	Class Design
	Class members are declared in this order: public members, protected members, private members
$\underline{\times}$	_Data members are properly protected (declared as private or protected)
<u> </u>	Classes (except functors and static classes) implement a default constructor, a virtual destructor, a copy constructor, and an overloaded assignment operator
<u> </u>	_Static classes declare a private default constructor to prevent instantiation
2.8	Safety and Performance
<u> </u>	_Type conversions have been done explicitly. The C++ set of casting operators
	$\verb static_cast , \verb reinterpret_cast , \verb const_cast \verb and dynamic_cast \verb have been \\ used instead of C-style casting \\$
	_Global variables are not used except in rare cases and when used include an inline comment describing the reason for use.
<u> </u>	_Dynamically allocated memory is deallocated when no longer needed
	There is no dangling pointers. Pointers are always tested for NULL values before trying to dereference them
<u></u>	There is no hardcoded numerical values, const or enum type values are used instead
\times	_Large objects are created on the heap
	The arguments specified in a function prototype are associated with variable names
3.	C++ Programming Guidelines
3.1	Readability and Maintainability
<u> </u>	_A space is put between the parenthesis and the keywords or the function names
<u> </u>	_A space is put between variables, keywords and operators
<u> </u>	Pointers are named in some fashion that distinguishes them from other "ordinary" variables
	Parentheses are used in macros to ensure correct evaluation of the macro

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Parts-of relation inheritance has been avoided

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