OHD General Programming Standards and Guidelines Peer Review Checklist

Reviewer's Name:		Charlie Becker			Peer Review Date:			02/14/18
Project Name:	Module 2			Project ID: Enter if applicable				
Developer's Name:	Taylor Dudunake			Project Lead:	-			
Review Files & Source code								
Code Approved	Yes						I	

This checklist is to be used to assess source code during a peer review. Items which represent the code being reviewed should be checked off.

Refer to the *OHD General Programming Standards and Guidelines* document for more complete descriptions and examples of the items listed below.

1. Internal Documentation

routine's creation date, purpose of the routine, a list of the calling arguments

(their types and what they do), a list of required files and/or database tables, the routine's return value, error codes and exceptions processed by the routine, and a modification history indicating when and by whom changes were made.

2. Programming Standards

	Consistent indentation of at least 3 spaces is used to distinguish conditional or control blocks of code. TABS NOT USED FOR INDENTATION.
X_	Inline comments are frequently used and adequately describe the code.
X_	_Structured programming techniques are adhered to.
X_	_Subroutines, functions, and methods are reasonably sized.
	The routines in each source file shall have a common purpose or have interrelated functionality. Methods in a class support its functionality.
	The name of the file, script or class represents its function.
	Function and method names contain a verb, that is, they indicate an action.
X_	_Meaningful variable names are used.
no_	Variables are initialized prior to use.
X_	_ Braces are used consistently
x_	_ There are no compiler warnings
3.	Programming Guidelines
X_	_Source file line lengths are 80 characters or less.
X_	_Spacing is used correctly to enhance the source code's readability.
	When continuing lines of code on new lines, they are broken after a comma or an operator. Higher level breaks are used instead of lower level breaks.
	Wrapped lines of code are aligned with the beginning of the expression at the same level on the previous line.
	Multiple line variable declarations are preceded by a type.
X_	Program statements are limited to one per line.
Y	Nested program statements are avoided

X_	_Parentheses are used to remove operator precedence ambiguity and to improve code readability.
X_	_Inline comments constitute approximately 20% of the total lines of code in the program, excluding the file and routine documentation blocks.
X_	The software reflects a balance of coding for efficiency and coding for readability.
	Meaningful error messages are used.
	System calls which acquire system resources are tested for error returns.
X_	_Routines and methods are contain no more than 200 executable lines.
	The number of routines in a source file is kept to a minimum for procedural languages.

Reviewer's Comments:

Very nicely commented with a combination of markdown and in-line. Excellent "task flow" from plotting data -> histogram -> key stats -> trends -> autocorrelation -> overview. Perhaps some interpretation of autocorrelation coefficient values at example lags would be beneficial? Nice connection pointed out between trend and decaying autocorrelation function. Well done.