1 April 22, 2013

## **Team 19 Phase 2 of Inspection**

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3 4	Laboratory # 8: Inspection			
5	Morgan, Laura			
6	Miaw, Jireh			
7	Hauser, Steven			
8	Dworak, Catherine			
9	Bertoglio, David			
10	20.008.00, 2 40.04			
11				
12	Work Product			
13	Documentation of Phase 2 of Inspection of Group 20's source code			
14				
15	Document Revision Information			
16	April 22, 2013 – Document created, Phase 2 inspection documented			
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**Approval Sheet** All group members whose names are listed below approve of the document and contributed fairly. **Member Names** Morgan, Laura Miaw, Jireh Hauser, Steven **Dworak, Catherine** Bertoglio, David **Pledge** On my honor, as a student, I have neither given nor received unauthorized aid on this assignment. Names Morgan, Laura Miaw, Jireh Hauser, Steven **Dworak, Catherine** Bertoglio, David 

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94 95 96	Phase 2 – Coding practices Sunday April 21, 2:00-4:00 p.m.			
97	Inspector – Laura			
98	Checklists Used			
99 100	Phase 2 Coding practices (single inspector).			
101				
102	Switch statements     Switch statements			
103 104	<ul> <li>Switch statements used rather than if-else-if blocks</li> <li>Every switch statement has a break in each case statement</li> </ul>			
105	Variables			
105	<ul> <li>Variables</li> <li>All variables initialized prior to use</li> </ul>			
107	<ul> <li>All variables declared at top of function</li> </ul>			
108	<ul> <li>All loop variables initialized just before loop</li> </ul>			
109	<ul> <li>No variables initialized that are not used</li> </ul>			
110	Classes			
111	<ul> <li>All classes have complete set of get() and set() methods</li> </ul>			
112	Bounds			
113	<ul> <li>All arithmetic checked for ranges within bounds</li> </ul>			
114	<ul> <li>All loop bounds are correct</li> </ul>			
115	Methods			
116	<ul> <li>All method arguments are used in method</li> </ul>			
117	<ul> <li>All functions named after what they return</li> </ul>			
118	<ul> <li>All procedures named after what they do</li> </ul>			
119	<ul><li>Conditionals</li></ul>			
120	<ul> <li>Complexity of conditionals should be avoided</li> </ul>			
121	<ul><li>All relational operators correct (&gt; vs &gt;=)</li></ul>			
122	<ul> <li>Executable statements not included in conditionals</li> </ul>			
123	Miscellaneous			
124	<ul> <li>No public data</li> </ul>			
125	<ul> <li>Every file is included in given file uses</li> </ul>			
126	<ul> <li>All file open commands checked for failure</li> </ul>			
127	<ul> <li>Type conversion done explicitly</li> </ul>			
128	Results of Inspection			
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130	Switch statements			
131	<ul> <li>Switch statements used rather than if-else-if blocks</li> </ul>			

132		block should be switch-case		
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146	-	ge declared in middle of		
147	function	-		
148	■ BaseStation line 216: byte[] check	sum should be declared at top		
149	of function	_		
150	■ GUI line 643: Boolean valueHolde	r declared twice (also declared		
151	on line 25)			
152	o All loop variables initialized just before	loop		
153	■ BaseStation line 30: Initialize read	dFlag on line 62 (just before		
154	loop) rather than at declaration			
155	o No variables initialized that are not used	d		
156	■ GUI line 28: private static GUI win	ndow never used		
157	57 Observations			
158		s sent to Team 20 on		
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161	•	Note: Auto-generated GUI code was not inspected as thoroughly, as directed by		
162 163				
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