Appendix 2 - Software Inspection Checklists

Team Number: <u>7155</u>   Overall Software Inspection Status (circle): **PASS / FAIL**

Queuing Area Checklist:

Team	Inspector	Drive Team Members Present	Rule #
NA		Coach	
NA		Driver1	
NA		Driver 2 (optional)	
		NXT Configuration	
NA		Samantha unit has the latest firmware and competition connection settings flashed to it (See Instructions Below)	
✓		NXT named with team number (optional hyphenated letter appended)	RS2
✓		NXT Firmware Version (circle one) LabVIEW - 1.31 or newer ROBOTC - 9.0 or newer	RS3
✓		Samostat program is loaded on the NXT	RS4
		Program Chooser program is loaded on the NXT	RS5
		NXT Sleep Timer set to NEVER	RS6
		Queuing Process	
✓		Team understands that no software changes are allowed in Queue Area.	
✓		Team understands that the match schedule is only an estimate. Matches may start prior to or after the scheduled time and it is the teams' responsibility to monitor schedule changes and show up when required.	
NA		Team knows where to receive alliance flags and where to return them after the match.	

I certify that the robot is in the proper software configuration.

Queuing Area Inspection Completed by: _____

How to Flash Samantha For Competition at Software Inspection:

1. Obtain the flash drive created by the FTA/FCS Operator with the Samantha.hex file and network key folders loaded.
2. Turn off the power to the Samantha Module.
   a. TETRIX – Turn off the main robot power switch
   b. MATRIX – Turn off/disconnect the MATRIX Battery Box
3. Remove the NXT USB cable from Samantha and insert the flash drive into the USB port on the Samantha.
4. Hold down the red button on the Samantha, then power on the Samantha Module. Release the red button when the LEDs on the Samantha light up.
5. The Samantha LEDs will complete TWO cycles of: Red-White-Blue-White-Red.
6. After two full light cycles are complete (approximately 40-seconds), remove the flash drive from the Samantha and reconnect the NXT USB cable.

> *Important: ENSURE two full LED light cycles complete before removing the flash drive from the module. Repeat the steps if two full LED light cycles are not observed.*

Field Inspection Checklist:

Team	Inspector	Field Setup	Rule #
NA		Connection with tournament-supplied FCS is successful	RS7
✓		Robot Setup procedure on the field is understood by the team and is successful	
		Robot Functionality	
✓		(Optional) Robot successfully ran an Autonomous program	
✓		Robot did not move prior to the start of the Autonomous period except for servo initialization	RS8
✓		Robot did not move between the Autonomous and Driver-Controlled periods	RS8
✓		Robot's Driver-Controlled mode started when commanded to do so by the FCS	
✓		Robot stopped at the end of the Driver-Controlled period	
		Match Process	
NA		Team understands how to call for FTA assistance during a match	
✓		Team understands they cannot touch any robot or field element after the match ends until instructed to do so by the referees	
✓		Teams understand they are to clear the alliance station as soon as the match ends with one team member remaining behind to collect the robot	

I hereby certify that this team has demonstrated their understanding of the match process, their ability to properly control their robot, and that their robot operates as required during a match.

General Comments or Reason(s) for Failure (if any):

I hereby state that all of the above is true, and to the best of my knowledge all rules and regulations of the *FIRST* Tech Challenge have been abided by.

_____   _____
Software Field Inspector   Team Student Representative