**Technical Inspection Checklist**

For Multiagent Control of Traffic Signals

Version 1.1

Submitted in partial fulfillment of the requirements of the degree of MSE

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# Introduction

This document contains the checklist and references for performing a technical inspection of the MACTS project. The document also identifies the items that are being inspected and the inspectors.

# References

* All items to inspect can be found at: <http://people.cis.ksu.edu/~bnehl/>.
* Sample technical inspection cover letters can be found on Deepti Gupta’s MSE website: <http://mse.cis.ksu.edu/deepti/>. They are in the column labeled Phase 3.

# Items to be Inspected

The following items from the System Architecture Design Document will be inspected:

1. System Architecture (Section 3)

* System Analysis (Section 3.1)
* Component Design (Section 3.3)
* Component Interface Specification (Section 3.4)
* System Design Rationale (Section 3.5)
* High-Level Design (Section 3.6)
* Mid-Level Design (Section 3.7)

1. Component Interaction (Section 4)
2. Formal USE/OCL Model (Section 5)

# Technical Inspectors

* Denise Case
* Sindhu Thotakura

# Technical Inspection Checklist

|  |  |  |
| --- | --- | --- |
| Inspection Item | Pass/Fail/Partial | Comments |
| The Analysis Class Diagram clearly describes the high-level relationships between model elements. (3.1) |  |  |
| The reason for each component is clear. (3.3) |  |  |
| The component design diagrams use legal correct UML elements. (3.3) |  |  |
| The Component Interface Specification clearly explains the major public methods. (3.4) |  |  |
| The rationale for the system architecture is clear (3.5) |  |  |
| The High-Level class diagram correctly shows how the system interfaces with SUMO. (3.6) |  |  |
| The symbols used in the class diagrams conform to UML 2.0 (3.7) |  |  |
| The symbols used in the sequence diagrams conform to UML 2.0 (Section 4) |  |  |
| Classes in the USE/OCL model are consistent with classes in the UML diagrams. (5) |  |  |
| Attributes in the USE/OCL are consistent with classes in the UML diagrams. (5) |  |  |
| Associations in the USE/OCL are consistent with associations in the classes in the UML diagrams. (5) |  |  |
| Multiplicities in the USE/OCL model are consistent with the multiplicities on the associations in the UML diagrams. (5) |  |  |