Technical Inspection Checklist

For Multiagent Control of Traffic Signals

Version 1.0

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

Bryan Nehl
CIS 895 – MSE Project
Kansas State University

Table of Contents

1   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.

2   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.

3   Items to be Inspected

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

1. System Architecture (Section 4)
    - Component Design (Section 4.1)
    - Component Interface Specification (Section 4.2)
    - System Analysis (Section 4.3)
    - High-Level Design (Section 4.4)
2. Mid-Level Design (Section 5)
3. Component Interaction (Section 6)
4. Models (Section 7)
5. Formal USE/OCL Model (Section 8)

4   Technical Inspectors

- Denise Case
- Sindhu Thotakura

5   Technical Inspection Checklist

Inspection Item	Pass/Fail/Partial	Comments
The reason for each component is clear. (4.1)		
The component design diagrams legal correct UML elements.		
The rationale for the system architecture is clear (4.4)		
The symbols used in the class diagrams conform to UML 2.0		
The symbols used in the sequence diagrams conform to UML 2.0		
The symbols used in the component diagrams conform to UML 2.0		
The Component Interface Specification (Section 4.2) clearly explains the major public methods.		
The Analysis Class Diagram clearly describes the high-level relationships between model elements.		
The High-Level class diagram correctly shows how the system interfaces with SUMO.		
Classes in the USE/OCL model are consistent with classes in the UML diagrams.		
Attributes in the USE/OCL are consistent with classes in the UML diagrams.		
Associations in the USE/OCL are consistent with associations in the classes in the UML diagrams.		
Multiplicities in the USE/OCL model are consistent with the multiplicities on the associations in the UML diagrams.		