

**CONTROLLED TRAFFIC SIGNAL SYSTEM  
TESTING -LEVEL A**

**Project Name:** \_\_\_\_\_ **Test Date:** \_\_\_\_\_  
**System Name: CTSS** \_\_\_\_\_ **Route:** \_\_\_\_\_ **From MM** \_\_\_\_\_ **To MM** \_\_\_\_\_

This procedure outlines Level A test to be performed on Controlled Traffic Signal System. The intent of this test is to verify the communication between all traffic signal local controllers and master controller in the traffic control section. Perform this test at master controller location using vendor certified software.

**Prior to start of Level A Testing, contractor to certify that 168-hour bench test for each controller in the zone has been successfully performed in accordance with requirements of Section 702.03.01.**

Certifying Contractor Representative's Name: \_\_\_\_\_  
 Certifying Contractor Representative's Signature and Date: \_\_\_\_\_

**PRIOR TO LEVEL A TESTING ENSURES THAT COMMUNICATION BETWEEN MASTER CONTROLLER AND LOCAL CONTROLLERS HAS BEEN ESTABLISHED AND HAS BEEN TESTED AND APPROVED.**

**Master Controller Location:** \_\_\_\_\_ **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Master Controller Manufacturer:** \_\_\_\_\_

**Type of Communications:** \_\_\_\_\_

**Testing Software:** \_\_\_\_\_

**List Controlled Traffic Signal System local Controller locations:**

**Controller #1** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Controller #2** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Controller #3** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Controller #4** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Controller #5** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Controller #6** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Controller #7** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Controller #8** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Controller #9** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

**Controller #10** **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Type/Model** \_\_\_\_\_ **Nearest Side Street Name:** \_\_\_\_\_

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 System Name: CTSS \_\_\_\_\_ Route: \_\_\_\_\_ From MM \_\_\_\_ . \_\_\_\_ To MM \_\_\_\_ . \_\_\_\_

**1: COMMUNICATION**

No.	Task	Required Value	Actual Value	Pass	Fail	Comments
1.	From master controller, verify download of timing plans & configuration data to all local controllers in traffic control section	X	X			

Controller # 1	PASS _____ FAIL _____ COMMENT _____
Controller # 2	PASS _____ FAIL _____ COMMENT _____
Controller # 3	PASS _____ FAIL _____ COMMENT _____
Controller # 4	PASS _____ FAIL _____ COMMENT _____
Controller # 5	PASS _____ FAIL _____ COMMENT _____
Controller # 6	PASS _____ FAIL _____ COMMENT _____
Controller # 7	PASS _____ FAIL _____ COMMENT _____
Controller # 8	PASS _____ FAIL _____ COMMENT _____
Controller # 9	PASS _____ FAIL _____ COMMENT _____
Controller # 10	PASS _____ FAIL _____ COMMENT _____

**2: STATUS**

No.	Task	Required Value	Actual Value	Pass	Fail	Comments
1.	From master controller, obtain intersection status, detector data, & equipment status from local controller	X	X			

Controller # 1	PASS _____ FAIL _____ COMMENT _____
Controller # 2	PASS _____ FAIL _____ COMMENT _____
Controller # 3	PASS _____ FAIL _____ COMMENT _____
Controller # 4	PASS _____ FAIL _____ COMMENT _____
Controller # 5	PASS _____ FAIL _____ COMMENT _____
Controller # 6	PASS _____ FAIL _____ COMMENT _____
Controller # 7	PASS _____ FAIL _____ COMMENT _____
Controller # 8	PASS _____ FAIL _____ COMMENT _____
Controller # 9	PASS _____ FAIL _____ COMMENT _____
Controller # 10	PASS _____ FAIL _____ COMMENT _____

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**3: CAPABILITY**

No.	Task	Required Value	Actual Value	Pass	Fail	Comments
1.	From master controller, verify local controllers ability to store timing plans, time of day schedules, & implementation of selected timing plan	X	X			

Controller # 1	PASS _____ FAIL _____ COMMENT _____
Controller # 2	PASS _____ FAIL _____ COMMENT _____
Controller # 3	PASS _____ FAIL _____ COMMENT _____
Controller # 4	PASS _____ FAIL _____ COMMENT _____
Controller # 5	PASS _____ FAIL _____ COMMENT _____
Controller # 6	PASS _____ FAIL _____ COMMENT _____
Controller # 7	PASS _____ FAIL _____ COMMENT _____
Controller # 8	PASS _____ FAIL _____ COMMENT _____
Controller # 9	PASS _____ FAIL _____ COMMENT _____
Controller # 10	PASS _____ FAIL _____ COMMENT _____

**4: SYNCHRONIZATION**

No.	Task	Required Value	Actual Value	Pass	Fail	Comments
1.	From master controller, verify the synchronization of timing among all local controllers in a traffic control section.	X	X			

Controller # 1	PASS _____ FAIL _____ COMMENT _____
Controller # 2	PASS _____ FAIL _____ COMMENT _____
Controller # 3	PASS _____ FAIL _____ COMMENT _____
Controller # 4	PASS _____ FAIL _____ COMMENT _____
Controller # 5	PASS _____ FAIL _____ COMMENT _____
Controller # 6	PASS _____ FAIL _____ COMMENT _____
Controller # 7	PASS _____ FAIL _____ COMMENT _____
Controller # 8	PASS _____ FAIL _____ COMMENT _____
Controller # 9	PASS _____ FAIL _____ COMMENT _____
Controller # 10	PASS _____ FAIL _____ COMMENT _____

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**5: MONITORING**

No.	Task	Required Value	Actual Value	Pass	Fail	Comments
1.	From master controller, verify phase monitoring, controller mode status, and failure status flags information transmit to master controller on request as per NTCIP protocol	X	X			

Controller # 1	PASS _____ FAIL _____ COMMENT _____
Controller # 2	PASS _____ FAIL _____ COMMENT _____
Controller # 3	PASS _____ FAIL _____ COMMENT _____
Controller # 4	PASS _____ FAIL _____ COMMENT _____
Controller # 5	PASS _____ FAIL _____ COMMENT _____
Controller # 6	PASS _____ FAIL _____ COMMENT _____
Controller # 7	PASS _____ FAIL _____ COMMENT _____
Controller # 8	PASS _____ FAIL _____ COMMENT _____
Controller # 9	PASS _____ FAIL _____ COMMENT _____
Controller # 10	PASS _____ FAIL _____ COMMENT _____

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**LEVEL A TEST RESULTS:**

PASS

FAIL

**Correction Work Items:**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

We agree that level A testing of the Controlled Traffic Signal System has been performed and that the information above accurately represent the results of the test.

Contractor Name: \_\_\_\_\_  
Contractor Representative Name: \_\_\_\_\_  
Signature and Date: \_\_\_\_\_

ITS Inspector Name: \_\_\_\_\_  
Signature and Date: \_\_\_\_\_

**Corrected Work Items:**

**ITS Inspector Signatures & Date**

- |          |       |
|----------|-------|
| 1. _____ | _____ |
| 2. _____ | _____ |
| 3. _____ | _____ |
| 4. _____ | _____ |
| 5. _____ | _____ |