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1.0   Intent

The requirements given in this recommendation cover detailed procedures for Traffic Control System pick-ups. The tasks identified in the Traffic System Pick-up Checklists are shared between the Traffic Signal Operations Group (TSOG), the Communications System Operator (CSO) and the Maintenance Contractor.

2.0   Equipment

Equipment required: Terminal socket wrench (3/8" & 7/16" narrow wall sockets)
Assorted screwdrivers, pliers

3.0   Pre-pickup Preparation

- •   As per the Checklists for the type of Traffic System.

- •   Check boxes on Checklist as tasks are completed.

4.0   Pick-up

- •   Install Bell plug in lower cabinet.

- •   As per the Checklists for the type of Traffic System.

- •   Check boxes on Checklist as tasks are completed.

Toronto
Transportation
Recommendation

Maintenance Recommendation
for Traffic Control System Pick-up Procedure

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January 2012

MTSS CHECKLIST

Location: _____   **Pickup By:**   **CSO:** _____
PX: _____   **Contractor:**   _____
Date: _____   **TSOG:**   _____

ACTION BY   **PREPARATION**

PRE-PICKUP

Action By		Preparation
TSOG	☐	Depick Intersection after the AM peak period (10:00 AM)
TSOG	☐	Check that signal is dropped on PX Status Console
TSOG	☐	Update 'Mods' spreadsheet
TSOG	☐	Update timings edit screen
TSOG	☐	Fax copy of timings to contractors office with description of modification
TSOG	☐	Notify CSO that timings have been updated

PICKUP

Action By		Preparation
CONTRACTOR	☐	Contact CSO for MTSS pick-up
TSOG	☐	Send addpick and pickup command to bring intersection online
TSOG	☐	Confirm PX Status Console show PX Under Control
TSOG	☐	Confirm detector (pushbutton, vehicle, sonic, APS) monitoring with contractor for each detector coded

Position:	1	2	3	4	5	6	7	8	9	10
Type:	___	___	___	___	___	___	___	___	___	___
Monitoring Direction: ___	___	___	___	___	___	___	___	___	___	___

Action By		Preparation
CSO	☐	Verify minimum, partial and maximum extensions
CONTRACTOR	☐	Create WRM call
CSO	☐	Confirm WRM monitor
CSO	☐	Activate and verify special function drivers
CSO	☐	Verify special function monitors
CONTRACTOR	☐	Check firehall, railway, transit and timing preemption
CSO	☐	Confirm preemption status
CONTRACTOR	☐	Switch manual/police control on
CSO	☐	Confirm manual/police monitor
CONTRACTOR	☐	Place signal on flash (for controllers being tested in shop)
CSO	☐	Confirm flash status
CONTRACTOR	☐	Unplug comm cable
CSO	☐	Depick intersection, notify TSOG testing is complete and forward checklist to TSOG
TSOG	☐	Addpick intersection
TSOG	☐	Check local timings and operation
TSOG	☐	Connect comm cable
TSOG	☐	Check system timings and operation
TSOG	☐	Update Cartegraph

RESULTS
Pickup Complete: ☐ Yes   Time: _____
                     ☐ No   Comment: _____

COMMENTS (e.g. NBLA on recall due to faulty loop)
_____
_____

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UTC SYSTEM CHECKLIST

Location: _____ **Pickup By:** **CSO:** _____
PX: _____ **Contractor:** _____
Date: _____ **TSOG:** _____

ACTION BY	PREPARATION	COMMAND
TSOG	☐ Update UTC Database	DBAS
TSOG	☐ Update UTC Timing Plans	DBAS/PPRP J12345
TSOG	☐ Update UTC Timetables	TTBP 1/2
TSOG	☐ Check SFs – SF1 (Plan __); SF2 (Plan __); SF3 (Plan __); SF4 (Plan__) & Run Controller Checks Using Plan ____	WHAT F12340 & SEED F 12341
CSO	☐ Check Central – RCCU Communication Status	DIPM J12345/MONI J12345
CSO	☐ Isolate Intersection	ISOL J12345
CONTRACTOR	☐ Confirm CSO Ready to Proceed	

	PRE-PICKUP	
CSO	☐ Change Current UTC Timing Plan to 0 (local plan)	PLAN J12345 0
CSO	☐ Log OUT Control & Reply Bits	LOTU X12340
CSO	☐ Reinstate System Control	XISO J12345*
CSO	☐ Activate Central Demand Detectors (DD)	DEMA J12345 *
CONTRACTOR	☐ Pull Local Detector Cards	
CSO	☐ Confirm DD Bit Reply & All Callable Stages Served	DIPM J12345/MONI J12345
CONTRACTOR	☐ Reinsert Local Detector Cards	
CSO	☐ Deactivate Central DD	XDEM J12345 *
CONTRACTOR	☐ Switch Remote Reconnect (RR) ON	
CSO	☐ Confirm RR Bit Reply	MONI J12345
CONTRACTOR	☐ Switch Manual Control (MC) ON	
CSO	☐ Confirm MC Bit Reply	MONI J12345
CONTRACTOR	☐ Switch MC OFF	
CONTRACTOR	☐ Create Detector Fault (DF)	
CSO	☐ Confirm DF Bit Reply in Position 14	DIPM J12345/MONI J12345
CONTRACTOR	☐ Remove DF	
CONTRACTOR	☐ Create Pre-emption Call	
CSO	☐ Confirm Pre-emption (HC) Bit Reply	DIPM J12345/MONI J12345
CSO	☐ Confirm Green Return Bits	DIPM J12345/MONI J12345

	PICKUP	
CONTRACTOR	☐ Switch RR OFF	
CSO	☐ Reinstate UTC Control	PLAN J12345 1
CSO	☐ Confirm Re-sync (SR) Bit Reply	DIPM J12345/MONI J12345
CONTRACTOR	☐ Confirm Pre-control LED	
CSO	☐ Confirm Stage Hold Bit Reply	MONI J12345
CONTRACTOR	☐ Confirm Stage Hold LED	
CSO	☐ Confirm Interval Advance Bit Reply	MONI J12345
CONTRACTOR	☐ Confirm Force Off LED	
CSO	☐ Confirm Signal In-sync in Normal Plan	DIPM J12345/MONI J12345
CSO	☐ Verify Operation of Special Functions (SF)	PLAN J12345 # (see above)
CSO	☐ Check All Other Plans	PLAN J12345 #
CSO	☐ Run Controller Checks	CHCK J12345
CSO	☐ Log 24-hour Split Timings	SSGM J12345
CSO	☐ Verify SCOOT Detectors	MONI J12345

Location	Movement	Location	Movement
☐ SD1 (32 – 35)	_____	☐ SD7 (56-59)	_____
☐ SD2 (36 – 39)	_____	☐ SD8 (60-63)	_____
☐ SD3 (40 – 43)	_____	☐ SD9 (64-67)	_____
☐ SD4 (44 – 47)	_____	☐ SD10 (68-71)	_____
☐ SD5 (48 – 51)	_____	☐ SD11 (72 -75)	_____
☐ SD6 (52 – 55)	_____	☐ SD12 (76-79)	_____

RESULTS
Pickup Complete: ☐ Yes   Time: _____
  ☐ No   Comment: _____

ARIES CHECKLIST

Location: _____   **Pickup By:**   **CSO:** _____
PX: _____   **Contractor:** _____
Date: _____   **TSOG:** _____

ACTION BY   **PREPARATION**

PRE-PICKUP
TSOG	☐ Add Zone if required
TSOG	☐ Add Intersection to Zone
TSOG	☐ Setup Real-Time Intersection Delay
TSOG	☐ Add Intersection to Zone Display
TSOG	☐ Notify CSO that testing can begin

PICKUP
CONTRACTOR	☐ Contact CSO for ARIES pick-up
CSO	☐ Upload intersection data
CSO	☐ Save uploaded data
CSO	☐ Check Real-Time Display
CSO	☐ Confirm detector monitoring with contractor for each detector programmed

Position:	1	2	3	4	5	6	7	8
Type:	___	___	___	___	___	___	___	___
Monitoring Direction:	___	___	___	___	___	___	___	___

CSO	☐ Verify minimum, partial and maximum extensions
CONTRACTOR	☐ Create WRM call
CSO	☐ Confirm WRM operation on Real-Time Display
CONTRACTOR	☐ Check firehall, railway, transit and timing preemption
CSO	☐ Confirm preemption status
CONTRACTOR	☐ Switch manual/police control on
CSO	☐ Confirm manual/police monitor
CONTRACTOR	☐ Place signal on flash (for controllers being tested in shop)
CSO	☐ Confirm flash status
CSO	☐ Notify TSOG that testing is complete and forward checklist to TSOG
TSOG	☐ Check uploaded timings with timing card
TSOG	☐ Check local timings and operation
TSOG	☐ Check split monitor report
TSOG	☐ Check event logs
TSOG	☐ Print copy of the database for the 'Aries Database Changes' binder
TSOG	☐ Update Cartegraph

RESULTS
Pickup Complete: ☐ Yes   Time: _____
                  ☐ No   Comment: _____

COMMENTS (e.g. NBLA on recall due to faulty loop)
_____

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TransSuite CHECKLIST FOR CONTROLLERS IN THE FIELD

Location: _____   **Pickup By:**   **CSO:** _____
PX: _____   **Contractor:** _____
Date: _____   **TSOG:** _____
Channel/Drop: _____
UCM Database Version: _____

PRE-PICKUP

ACTION BY		ACTION	INTERFACE	COMMAND(S)
TSOG	☐	Add channel if it does not already exist.	Management User Interface (Mgmt UI)	File > Add New > Channel (enter channel, position, CCS and protocol)
TSOG	☐	Configure new channel created. If changes are made to channel configure file, send config file to CCS		Chn Commands > Configure
TSOG	☐	Add intersection		CCS Commands > Send Config File
TSOG	☐	Configure new intersection created		File > Add New > Intersection (enter PX# and Jurisdiction)
	☐			Int Commands > Configure
				Fill in info on Config tab and click Apply
				Fill in info on Det Config tab and click Apply
				Fill in info on Filters tab and click Apply
TSOG	☐	Rename default version name and description	Controller Database Manager (Ctrlr DB Mgr)	Device List > Open PX# that was created > Select default version > Change version name/description (enter 'System Pickup' for New Name and current date for New Descripton)
TSOG	☐	Update 'Mods' spreadsheet		
TSOG	☐	Provide copy of timing card with updated channel/drop info and system loop drawing to CSO		

PICKUP

ACTION BY		ACTION	INTERFACE	COMMAND(S)
CSO	☐	Check comm status	Mgmt UI	Channel Report > Drop Info (valid % should be above 90%)
CSO	☐	Upload controller database to 'System Pickup' version	Ctrlr DB Mgr	Upload All
CSO	☐	Save uploaded data		Save and add journal entry (ex. Upload successful)
CSO	☐	Bring signal on Standby	Mgmt UI	Int Commands > Put Standby
CSO	☐	Pickup signal		Int Commands > Put Online
CSO	☐	Check online status		Intersection Reports (Comm Mod and Comm Status should show Online)
CSO	☐	Confirm detector monitoring with contractor for each local detector programmed (also obtain information from contractor on what lane the detector is serving)		Intersection Reports > Dets (vehicle detectors to test can be found from the uploaded data on the Ctrlr DB Mgr; NS pushbutton calls should be reported on position 2 and EW on 6)

Local Detectors:

Position:	1	2	3	4	5	6	7	8
Monitor:	☐	☐	☐	☐	☐	☐	☐	☐
Type (veh/ped):	___	___	___	___	___	___	___	___
Lane/Direction:	___	___	___	___	___	___	___	___

PICKUP (CONTINUED)

ACTION BY		ACTION	INTERFACE	COMMAND(S)
CSO	☐	Verify system detectors	Mgmt UI	Intersection Reports > Dets (check that volume, occupancy and speed data is reported)
Contractor	☐	Create Pre-emption Call Confirm Pre-emption Status		Intersection Reports > Alarm Flags (should show check mark beside preempt)
CSO	☐	Check Time Consistency		Intersection Reports > Time Consistency > Request Report (Time Difference should be less than 3 secs)
CSO	☐	Test Special Functions		Intersection Reports > Special Fns
Contractor	☐	Update cabinet paperwork with channel/drop info		
CSO	☐	Activate split logger		Int Commands > Manage STL > Start STL > enter 2999 for year

POST-PICKUP

ACTION BY		ACTION	INTERFACE	COMMAND(S)
TSOG	☐	Review uploaded data with info on timing card	Ctrlr DB Mgr	
TSOG	☐	Check controller timings and operation in the field Update timing card in cabinet with system pickup date		
TSOG	☐	Generate and Review Split Monitor Report	Mgmt UI	Intersection Report > Split Logger > Phase Times > Enter Start and End Dates and Times > Generate Report
	☐	Check controller log for any failures over 24 hour period and adjust intersection filters as required		Int Commands > Show Controller Log
TSOG	☐	Create ATMS drawing file	ATMS Explorer	
TSOG	☐	Update Cartegraph		

RESULTS

Pickup Complete: ☐ Yes Time: _____
　　　　　　　　　 ☐ No Comment: _____

COMMENTS (e.g. NBLA on recall due to faulty loop)

_____
_____