

Appendix A

FORM A1: Controller Submittal Form

VENDOR NAME:
PRODUCT:
CONTROLLER:
HARDWARE:
SOFTWARE:

NOTE: VENDOR MUST SUBMIT A COMPLETE PACKAGE CONSISTING OF
HARDWARE AND SOFTWARE.

INCOMPLETE PACKAGES CONSISTING OF ONLY HARDWARE OR ONLY
SOFTWARE WILL NOT BE TESTED.

SUBMITTAL CHECKLIST:

- Controller Installation Manual (For NEMA TS2 Type 1 Cabinet)
- Controller Hardware and Software Specifications
- Letter from Transcore ITS LLC
- Specifications Compliance Form (Form B2)

VENDOR CONTACT FOR TESTING SUPPORT:

Name:

Phone

Email:

SUBMITTED BY (Authorized Signatory):

Signature

Title

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FORM A2: Specifications Compliance Form

1) General:

Complies with:		Yes	No
1.1	(a) NEMATS2-2003 VO2.06	<input type="checkbox"/>	<input type="checkbox"/>
	(b) NTCIP	<input type="checkbox"/>	<input type="checkbox"/>

Explain:

1.2	(a) NEMA TS2-2003 VO2.06 Section 2 (Environmental Design & Operating Standards)	<input type="checkbox"/>	<input type="checkbox"/>
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Explain:

1.3	Minimum 100 Installations	<input type="checkbox"/>	<input type="checkbox"/>
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Approximate # of Installations

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Reference:	Company Contact Name:	Phone Number:	E-Mail:	# of Installations
1				
2				
3				
4				
5				

Note: (i) For Controller with 100 or more installations 3 Agency contacts are required, from amongst the top 5 Agencies with most installations.
(ii) For controllers with less than 100 installations a minimum of 5 references are needed.

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1.4 Transcore ITS, LLC Letter
(Attach Letter with Submittal) Explain:

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1.5 Operates in NEMA TS2 Type 2 Cabinet

Explain:

1.6 Field-to-Center Communication Speed

(a) 10/100 Ethernet

(b) Gigabit Ethernet

Explain:

1.7 Integrated Ethernet Switch

(a) Hot Pluggable

1.8 (a) Database Stored in Non-Volatile Memory

(b) Database Stored in Volatile Memory

Exceptions:

1)

2)

3)

4)

2) Hardware: Yes No N/A

2.1 (a) Aluminum Enclosure

(b) Shelf-Mounted

Explain:

2.2 List Additional Modular Hardware that is part of the Controller Package

(i) _____

(ii) _____

(iii) _____

2.3 (a) I/O Connectors, Fuse Holder, Display, on the Front Panel

(b) External Power Switch

(c) Poly-vinyl and Water Resistant Keys

2.4 (a) Minimum Required Memory Yes No N/A

(i) 16 MB Flash Memory

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(ii)	64 MB SDRAM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(iii)	1 MB Non-volatile SRAM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Expandable Memory			
(i)	64 MB Flash Memory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(ii)	128 MB SDRAM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(iii)	2 MB Non-volatile SRAM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.5	Controller Engine Board and CPU	Yes	No	N/A
(a)	Complies with ATC Standard Ver. 5.2b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Other ATC Standard Ver.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.6	Display Screen 16 lines, 40 Characters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.7	(a) Number of Ethernet Ports: _____			
(b)	Ethernet Ports Speed			
(i)	100 Base-T/Gigabit/Other _____			
(ii)	100 Base-T/Gigabit/Other _____			
(iii)	100 Base-T/Gigabit/Other _____			
(iv)	100 Base-T/Gigabit/Other _____			
(c)	Independent Programmable Subnets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.8	(a) Number of High Sped USB 2.0 Ports _____			
(b)	Transfer Controller Database from a FAT Formatted USB Drive <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.9	(a) Number of Serial Interface Points _____			
(b)	Serial Ports Comply with			
(i)	ATC Standard 5.2b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(ii)	ATC Standard _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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3) (a) Number of SDLC Capable Serial Ports _____ **Operating System:**

- | | | | | | |
|-------|---------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 3.1 | Yes | | No | N/A | |
| (i) | LINUX O/S | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| (ii) | Other | _____ | | | |
| (iii) | KERNEL Version | _____ | | | |
| (iv) | POSIX Libraries & POSIX 1003 1b | | | | |
| | Application Support | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Explain:

- | | | | | | |
|-------|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 3.2 | OS Can be Updated from | | | | |
| (i) | Ethernet | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| (ii) | Serial | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| (iii) | USD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.3 | OS Access | | | | |
| (i) | FTP | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| (ii) | TelNet | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| (iii) | SSH) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| (iv) | Password Encryption | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| (v) | Password Enabled by Department | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| (vi) | Enable/Disable Access | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.4 | ATC Application Level Hardware Access | | | | |
| (a) | BSP Package | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |