



U.S. Department
of Transportation

**Federal Highway
Administration**

Washington Division

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February 12, 2008

HDE-WA/ 435.6

Ms. Paula J. Hammond
Secretary of Transportation
Department of Transportation
Olympia, Washington
Attention: Pasco Bakotich III, P.E.

**Statewide Blanket Approval for
Traffic/ITS Equipment and
Software - Proprietary Item Request**

Dear Ms. Hammond:

We have reviewed the documentation submitted with your January 28, 2008, letter requesting FHWA approval of a statewide blanket approval of Traffic/ITS Equipment and Software as listed in the attached appendices.

As stated in your letter, this statewide approach will enable each WSDOT Region to select the most appropriate piece of software or equipment to fulfill the WSDOT mission. The primary goal is to increase efficiency project delivery by reducing redundant proprietary approval requests on various statewide projects for use of identical equipment with similar justifications. Additionally, the Department is looking to improve standardization and interoperability of equipments between regions and the development of performance specifications. Each time a product is selected for use, the designer will be required to place a justification in the project file.

We approve this request with the understanding that WSDOT will continue to evaluate system needs and select equipment to meet those needs. The approved products list will be appended as new products become available. The Department will submit a report on the strengths and weaknesses of this blanket proprietary approval approach by June 30, 2009.

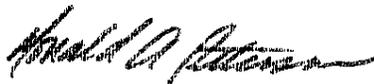
**MOVING THE
AMERICAN
ECONOMY**



Please contact Don Petersen at 360-534-9323 or don.petersen@fhwa.dot.gov if you have any questions.

Sincerely,

DANIEL M. MATHIS, P.E.
Division Administrator

A handwritten signature in black ink, appearing to read "Donald A. Petersen", written in a cursive style.

By: Donald A. Petersen
Division Safety/Design Engineer

Enclosure

CC: Ted Baily, MS 47344

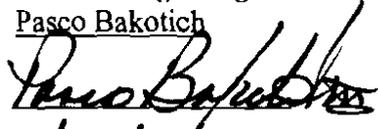


DATE: January 17, 2008

TO: Pasco Bakotich
State Design Engineer
MS-47330

Approval of State Design Engineer

Name: Pasco Bakotich

Signature: 

THRU: Ted Trepanier 
Co-Director of M&O / State Traffic Engineer
(360)705-7280
MS-47344

Date: 1/24/2008

FROM: Ted Bailey 
Signal, Illumination and ITS Engineer
(360)705-7286
MS-47344

SUBJECT: **Statewide Blanket Proprietary Item(s) Approval Request** for the following equipment and software for the period of **July 1, 2007 – June 30, 2009**

Background

The HQ Traffic Office has initiated a process with the State Design Office and FHWA to create a statewide pre-approved list of proprietary equipment and associated software for traffic control; monitoring and information systems; or other intelligent transportation system (ITS) components. This list of pre-approved items is primarily comprised of specialized electrical and electronic equipment or structural components that are an integral part of this equipment. The list will be approved for a two (2) year period beginning and ending with each biennium. At the end of each biennium, the proprietary list will be re-evaluated with items added and deleted as required, and resubmitted for approval. If new products become available and more desirable for a justifiable reason during the course of the biennium, WSDOT may revise or append the list, outlined in Appendices A, B and C, and resubmit for approval. (*Note: Appendices B and C contain the same information as Appendix A and are included for cross referencing purposes only.*) In addition, there may still be instances when project specific proprietary requests are necessary to address specific needs. In these cases, independent, project specific justification will be submitted for approval through the normal channels on a project by project basis. Once identified it is anticipated that project specific proprietary requests would eventually be included in the Statewide Blanket Approval for the next biennium.

The primary goal of this approach is to increase efficiency in project delivery by reducing redundant proprietary approval requests on various statewide projects for the use of identical equipment with similar justifications. Although there are currently a few proprietary items with statewide blanket approval, most regions submit requests separately. These regional requests are for both project specific and region wide blanket proprietary approval. **The secondary goal is to improve standardization and interoperability of equipment between**

Statewide Blanket Proprietary Item(s) Approval Request

regions and encourage the development of performance specifications. By focusing each region towards one statewide blanket proprietary approval process, we gain an enhanced visibility into the equipment selections in each region which encourages the evolution towards standardization and performance specifications.

The intent of this memorandum is to eliminate all existing region or statewide blanket proprietary approvals and replace them with this list of Statewide Blanket Proprietary Item(s). Any additional items after this proprietary approval will require independent justification and a formal submittal through normal channels on a project by project basis. Approval will be effective for a two (2) year period as indicated in the SUBJECT line. This memorandum and subsequent approval by FHWA will cover the Broad Scope Justification required for the proprietary approval as described in this memorandum.

This Statewide Blanket Proprietary Approval grants each Region Approval for one (1) manufacturer for each category of equipment. Appendix A contains a complete list of all categories of equipment with a list of manufactures that produce equipment for each category. If the Region has an “X” associated with a specific manufacturer, then approval is granted to specify any product from the specific manufacturer for the given category of equipment.

Designers will be required to place justification in the project design file; which is currently archived for 3 years; indicating the need to use the selected proprietary item(s). The project file justification will require the specific manufacturer(s), distributor(s), model number(s) and timely justifications that are most relevant at the time the proprietary item is selected during the design process with specific reference to one or more of the “Broad Scope Justifications” outlined below. The project file justification package will NOT require approval by HQ Design or FHWA, but rather be stored away in the project file as documentation of the decision making process.

The long range vision of the Statewide Blanket Approval is that all included equipment and software would be evaluated to determine if a comparable and acceptable alternative could be successfully procured through performance specifications. Currently, national standards, such as NTCIP, are not complete enough to ensure successful system operation for all types of ITS systems. In addition, the Regions have made a significant investment in their current ITS, electrical and electronic systems where procurement through performance specifications would be impractical due to system integration issues. WSDOTs experience has shown for critical electronic components and software it is best to test the operation of a specific manufactures product and then, if successful, specify that product for similar applications in the future until a comparable alternative becomes available that is capable of integrating with legacy equipment and software.

Ultimately, competitive bidding for software and equipment based on performance specifications provides the maximum benefit to the public. However, near term, due to the justification above and the significant cost, effort, and expertise required to develop and maintain cost effective and

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timely performance specifications that would encompass the items listed in Appendix A, it will be difficult to pursue the performance specification approach. WSDOT has discovered that even identifying a specific manufacturer and model number for each piece of software or equipment is challenging due to the synchronization and operational needs of WSDOT systems, adjoining jurisdictional differences, geographical differences, availability of the technology in each Region, the compatibility of equipment and software between similarly functioning systems from different manufacturers, mergers and acquisitions of existing manufacturers, and so on.

Broad Scope Justification

All of the items listed in **Appendix A** are essential for **one or more** of the following justifications:

- 1) **Synchronization with existing equipment**
- 2) **No equally suitable alternative exists**
- 3) **A significant investment has been made by the State (WSDOT) in training, parts, maintenance and operational familiarity, and equipment for a given system where it would be unreasonable to invest in another system.**
- 4) **In the public's best interest.**

Near term, it is **in the public's best interest** for WSDOT to standardize on the minimum number of software packages and equipment manufactures possible to accomplish the WSDOT Mission. Through research and experience, WSDOT has made a **significant investment in selecting software and equipment that synchronizes with existing equipment**, while incorporating new technological advancements as they present themselves and become feasible. In some cases, **no equally suitable alternative exists** either in the market place or from another manufacturer given site conditions, legacy equipment or other operability issues. The continued streamlining of an already **significant investment in equipment parts, training, maintenance, operational familiarity and software licensing expenditures** associated with the items list in this blanket proprietary approval, represents an effective use of state and federal resources. It is also **in the public's best interest** to allow the most compatible piece of software or equipment at the time of design, construction and implementation of the system.

The statewide blanket approval for the items listed in Appendix A will allow each region to select the most appropriate piece of software or equipment necessary to fulfill the WSDOT Mission. As described previously, designers will be required to place justification in the project design file indicating the need to use the selected proprietary item(s).

It may take considerable time to evolve to the performance specification approach as one of the primary obstacles out of our control, is the shifting standards and technological advancements through which the performance specifications would be based. However, **since WSDOT is committed to moving towards performance specifications, we will report on the strengths and stretches of this blanket proprietary approval approach by June 30, 2009 along with some tangible next steps such as which proprietary categories of equipment could be replaced with performance specifications and what additional resources and expertise would**

Statewide Blanket Proprietary Item(s) Approval Request

be necessary to accomplish these steps. WSDOT plans on continually evaluating the needs of our systems and selecting equipment that best meets those needs. As new products become available and more desirable for a justifiable reason, WSDOT will revise or append Appendices A, B and C and resubmit for approval.

If you have any questions or need additional information, please contact Ted Bailey at 360-705-7286.

TJB:tjb

Attachments:

Appendix A – (Statewide Blanket Proprietary Approval Matrix)

Appendix B – (Statewide Proprietary Approved Item - A to Z)

Appendix C – (Statewide Blanket Proprietary Approved Item Categories of Equipment)

cc: Brian Walsh, State Traffic Design and Operations Engineer, MS# 47344
Math Leth, Northwest Region Traffic Engineer, MS# NB82-120
Steve Kim, Olympic Region Traffic Engineer, MS# 47440
Chad Hancock, Southwest Region Traffic Engineer, MS# S-15
Jennene Ring, North Central Region Traffic Engineer
Rick Gifford, Southwest Region Traffic Engineer
Harold White, Eastern Region Traffic Engineer
Bill Legg, State ITS Operations Engineer, MS #47344

Appendix A - (Statewide Blanket Proprietary Approval)

Updated 1-17-07

Item Number	Categories of Equipment	Region Approved to Use Proprietary Item						Comments
		NWR	OR	SWR	NCR	SCR	ER	
Audible Pedestrian Displays and Indications								
1	Polara Engineering, Inc. Equipment	X	X	X	X	X	X	
Battery Backup Systems (General)								
2	Alpha Technologies Equipment	X	X	X	X	X	X	
Battery Backup Systems (Large Microwave Sites)								
3	Battery Power Systems, Inc., Equipment	X	X	X		X	X	
4	Argus Technologies Inc., Equipment				X			
Battery Backup Systems (Small Microwave Sites)								
5	Newmar Equipment				X			
Closed Circuit Television Camera (CCTV) Equipment - Pan, Tilt, Zoom (PTZ) Installations								
6	Cohu Camera Equipment	X	X	X		X		
7	Pelco Camera Equipment				X		X	
Closed Circuit Television Camera (CCTV) Equipment - Fixed Installations								
8	Cohu Camera Equipment	X	X	X		X		
9	Pelco Camera Equipment						X	
10	Everfocus Electronic Corporation Equipment				X			
Closed Circuit Television Camera (CCTV) Equipment (Attachment Hardware and Power Supply Only - No Camera)								
11	Pelco Equipment	X	X	X	X	X	X	
Combiners, RS-422 (General)		Basic Definition: Combines data from Multiple sources into one stream.						
12	Vicon Equipment	X	X	X	X	X	X	
Combiners, RS-422 (Camera Control Only)								
13	Pelco Equipment	X	X	X	X	X	X	
Concrete Universal Enclosures (CUE) and Concrete Walk-in Buildings								
14	Emerson Network Power Pre-cast Concrete Walk-in Building	X	X	X	X	X	X	Note: Marconi Communications, Inc was bought out by Emerson
Conflict Monitors (General)								
15	EDI Series Equipment	X	X	X	X	X	X	
Conflict Monitors (For Signals with Flashing Yellow Arrow Operation)								
16	Eberle Equipment	X	X	X	X	X	X	
Converters (CVISN Applications Only (RS232 to IP, Serial to Ethernet, IP to Fiber))		Basic Definition: A device that converts data from analogue to digital; digital to analogue; or from one form to another such as IP to Fiber.						
17	MOXA Equipment	X	X	X	X	X	X	
Converters (HUB or Cabinet)		Basic Definition: A device that converts data from analogue to digital; digital to analogue; or from one form to another such as IP to Fiber.						
18	Black Box Equipment						X	
19	B&B Electronics Equipment	X	X	X	X	X		
Cross-connect Panel								
20	ADC Equipment	X	X	X	X	X	X	
Digital Video Recorder (DVR)								
21	Mirasys (Dina/Polaris) Equipment	X	X	X		X	X	
22	IndigoVision Equipment				X			
Emergency Vehicle Preemption (EVP)								
23	3M Opticom Equipment	X	X	X	X	X	X	

Appendix A - (Statewide Blanket Proprietary Approval)

Updated 1-17-07

Item Number	Categories of Equipment	Region Approved to Use Proprietary Item						Comments
		NWR	OR	SWR	NCR	SCR	ER	
Fiber Optic Patch Panels								
24	Telect LCX Equipment		X			X		
25	Corning Equipment						X	
26	ADC Equipment	X			X			
27	Bejed Equipment			X				
Fuse / Alarm Panel								
28	Communications Network Systems, Inc. Equipment	X	X	X		X	X	
29	Telect Equipment				X			
Highway Advisory Radio (HAR) Antenna Equipment Only								
30	Morad Antenna Equipment	X	X	X	X	X	X	
Highway Advisory Radio (HAR) Equipment								
31	Highway Information Systems, Inc. (HIS) Equipment	X	X	X	X	X	X	
Horizontal Warning Gates								
32	B&B Roadway Equipment	X	X	X	X	X	X	
Illumination (High Mast Lowering Device Systems)								
33	Holophane High-Mast Illumination Lowering Device Systems (LD5 or Current Model)	X	X	X	X	X	X	
Illumination (Navigation Systems)								
34	B&B Roadway Equipment	X	X	X	X	X	X	
License Plate Reader (LPR)								
35	Pips Technology License Plate Reader (LPR) Equipment	X	X	X	X	X	X	
Modems - (For use with State Owned Twisted Pair Conductors)								
36	General Device Incorporated(GDI) Equipment	X	X	X	X	X	X	
Modems - Cellular (General Use)								
37	DIGI Equipment (Connectport VPN)	X	X	X	X	X		
38	Telular Equipment (Data Remote)						X	
Modems - Dial Up (General Use)								
39	US Robotics Equipment	X	X				X	
40	General Device Incorporated(GDI) Equipment			X				
41	Telenetics Equipment				X	X		
Modems - Dial Up (For Transportation Data Office (TDO) Applications)								
42	Infotec Equipment	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS.
Modems - IP Wireless (For Transportation Data Office (TDO) Applications)								
43	Getwireless Equipment	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS.
Modems - IP Wireless (General Use)								
44	Raven Equipment	X	X	X	X	X		
45	General Electric Equipment						X	MDS iNET Equipment
Motion Sensor Equipment								
46	MRX Platinum-300 Motion Sensor Equipment	X	X	X	X	X	X	
Permanent Traffic Recorders								
47	Jamar Technologies Inc. Equipment	X	X	X	X		X	
48	Diamond Traffic Products Equipment					X		

Appendix A - (Statewide Blanket Proprietary Approval)

Updated 1-17-07

Item Number	Categories of Equipment	Region Approved to Use Proprietary Item						Comments
		NWR	OR	SWR	NCR	SCR	ER	
Roadway Weather Information Systems (RWIS) - Tower Structure								
49	Glen Martin Engineering Equipment	X	X	X	X	X	X	This tower is used by both SSI and VAISALA for RWIS systems.
Roadway Weather Information Systems (RWIS)								
50	SSI Roadway Weather Information System Equipment			X		X	X	
51	VAISALA Road and Runway Surface Analyzer (ROSA) Weather Station Equipment	X	X		X			
Roadway Weather Information Systems (RWIS) (Replacement Parts Only; Existing Systems)								
52	SSI Roadway Weather Information System Equipment	X	X	N/A	X	N/A	N/A	
Signs (Mechanical)								
53	Skyline Drum Sign Equipment	X	X	X	X	X	X	
Signs (Mounting Brackets)								
54	Pelco Astro Sign-Brac	X	X	X	X	X	X	
Signs (with Embedded Flashing Lights)								
55	TAPCO Products and Equipment	X	X	X	X	X	X	
Switch (Voice-over-IP)								
56	Quintim Technologies Equipment	X	X	X	X	X	X	
Switch, Video or Data - (Ethernet)		Basic Definition: Connects two segments of a network together that are using ethernet type connections.						
57	Ruggedcom Equipment	X		X				
58	EtherWAN Systems Inc. Equipment		X		X	X	X	
Switches, Video or Data (General) - Analogue and Ethernet		Basic Definition: Connects two segments of a network together that are using ethernet type connections.						
59	Optelecom Equipment			X				
60	International Fiber Systems (IFS) Inc. Equipment		X		X	X		
61	Vicon Equipment						X	
62	American Dynamics	X						
Synchronous Optical NETWORK (SONET) System								
63	Cisco Systems Inc. Equipment	X	X	X	X	X	X	
Terminal Server (Field/Cabinet)		Basic Definition: A device that aggregates multiple communication channels into one device.						
64	Ruggedcom Equipment	X	X	X	X	X	X	
Terminal Server (HUB)		Basic Definition: A device that aggregates multiple communication channels into one device.						
65	MOXA Equipment			X		X		
66	Lantronix Equipment				X		X	
67	DIGI Equipment	X	X					
Traffic Signal Controller Equipment (2070, 2070L(Light) and 2070N(Nema))								
68	Eagle Equipment	X				X	X	
69	Naztec Equipment			X				
70	McCain Equipment				X			
71	Quixote (NEMA) TMP 390 Equipment		X					
Traffic Signal Transfer Switch								
72	Gen/Tran Equipment	X	X	X	X	X	X	
Transceiver (Fiber Optic/Ethernet)		Basic Definition: A device used to transmit and receive data over a fiber or ethernet/fiber network.						
73	Radiant Communications Corporation Equipment	X		X				
74	EtherWAN Systems Inc. Equipment				X	X	X	
75	International Fiber Systems (IFS) Inc. Equipment		X					
Transient Voltage / Surge Suppression Systems (Communication Applications)								
76	Edco Equipment	X	X	X	X	X	X	

Appendix A - (Statewide Blanket Proprietary Approval)

Item Number	Categories of Equipment	Region Approved to Use Proprietary Item						Comments	Updated 1-17-07
		NWR	OR	SWR	NCR	SCR	ER		
Transient Voltage / Surge Suppression Systems (Line Applications)									
77	Transtector Equipment	X	X	X	X	X	X		
Transmission (Video or Data)		Basic Definition: Transmits data from a field HUB or Cabinet back to the TMC.							
78	Communication Specialties Incorporated (CSI) Equipment – (Deci-Mux)	X		X					
79	Lamar Video Equipment		X		X	X			
80	Optelecom Equipment						X		
Transmitters and Receivers (Video and Data)		Basic Definition: Transmits data from a field cabinet near the device back to the field HUB or Cabinet.							
81	Optelecom Equipment	X		X	X		X		
82	International Fiber Systems (IFS) Inc. Equipment		X			X			
Variable Message Signs (VMS) - CVISN Applications									
83	Wells Sign Equipment	X	X	X	X	X	X		
Variable Message Signs (VMS) - Front Access Type									
84	Daktronics, Inc Equipment	See note		X	X	X	X	Note: NWR, Prefers to use their performance specification which lists Daktronics, Skyline and Mark IV as alternatives.	
85	Fiber Optics Display Systems (FDS) Equipment		X						
Variable Message Signs (VMS) - Walk-In Type									
86	Daktronics, Inc Equipment	See note		X	X	X	X	Note: NWR, Prefers to use their performance specification which lists Daktronics, Skyline and Mark IV as alternatives.	
87	Fiber Optics Display Systems (FDS) Equipment		X						
Variable Message Signs (VMS) - Variable Speed Limit or Lane Utilization Type									
88	Daktronics, Inc Equipment	X		X	X	X	X		
89	Fiber Optics Display Systems (FDS) Equipment		X						
Vehicle Detection (Infra-red Light)									
90	Control Specialists Equipment (TIRTL)	X	X	X	X	X	X		
Vehicle Detection (Microwave (Speeds Only))									
91	Speed Info Equipment	X	X	X	X	X	X		
Vehicle Detection (Microwave (Speeds, Counts and Classification))									
92	Electronic Integrated Systems (EIS) RTMS Equipment		X	X		X	X		
93	Wavetronix Equipment	X			X				
Vehicle Detection (Video (Transportation Data Office (TDO) Applications))									
94	Iteris Video Detection Equipment.	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS.	
Vehicle Detection (Video)									
95	Kar-Gore, Inc Video Detection Equipment (Traficon)	X	X	X	X	X	X		
Vehicle Detection (Weigh-in-Motion (Transportation Data Office (TDO) Applications))									
96	International Road Dynamics (IRD) Equipment	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS.	
Vehicle Detectors (Loops)									
97	Reno A&E Equipment	X	X	X	X	X	X		
Video Distribution Amplifier									
98	GE Security Equipment	X				X	X		
99	Kramer Electronics Equipment		X		X				
100	Pelco Equipment			X					
Video and Data Servers; Video Encoder/Decoder Equipment (Fixed Snap Shot Cameras)		Basic Definition: Compresses or Decompresses the video signal to reduce bandwidth usage during the Transmission.							
101	Axis Communications Equipment	X	X	X	X	X	X		

Appendix A - (Statewide Blanket Proprietary Approval)

Item Number	Categories of Equipment	Region Approved to Use Proprietary Item						Comments	Updated 1-17-07
		NWR	OR	SWR	NCR	SCR	ER		
Video and Data Servers; Video Encoder/Decoder Equipment (Live Streaming Video Cameras)		Basic Definition: Compresses or Decompresses the video signal to reduce bandwidth usage during the Transmission.							
102	Radiant Communications Corporation Equipment	X							
103	IndigoVision Equipment		X	X	X	X			
104	Optelecom Equipment						X		
Wireless Communication (170 Traffic Signal Controller Interconnect)									
105	Encom Equipment	X	X	X	X	X	X		
Wireless Communication (900 Mhz non-line of Sight Ethernet or Non-Video Data)									
106	MDS INET Equipment	X	X	X	X	X	X		
Wireless Communication (Antennas)									
107	Andrew Antenna Equipment				X				
108	MaxRad Antenna Equipment	X	X	X		X	X		
Wireless Communication (Backbone, Point-to-Point Long Range)									
109	Alcatel-Lucent Equipment (Microwave Radio)	X	X	X	X	X	X		
Wireless Communication (IP Wireless and 2070 Traffic Signal Controller Interconnect)									
110	Encom Equipment					X			
111	MDS INET Equipment	X	X	X	X		X		
Wireless Communication (Short Haul or Line of Sight ONLY)									
112	Wi-Lan Radio Equipment	X	X	X	X	X	X		
Wireless Communication (Short, Mid and Long Range)									
113	Solctek Skyway short, mid and long range wireless microwave equipment	X	X	X	X	X	X		
Wireless Communication (Towers and non-radio Equipment)									
114	Valmont Equipment	X	X	X	X	X	X		
Wireless Digital Communication (Video and Non-Video Data)									
115	Encom Equipment	X	X	X		X			
116	Harris Equipment				X				
117	Varint Equipment						X		

Appendix B - (Statewide Proprietary Approved Item - A to Z)

Updated 1-17-07

Item Number	Categories of Equipment	Region Approved to Use Proprietary Item						Comments
		NWR	OR	SWR	NCR	SCR	ER	
23	3M Opticom Equipment	X	X	X	X	X	X	
20	ADC Equipment	X	X	X	X	X	X	
26	ADC Equipment	X			X			
109	Alcatel-Lucent Equipment (Microwave Radio)	X	X	X	X	X	X	
2	Alpha Technologies Equipment	X	X	X	X	X	X	
62	American Dynamics	X						
107	Andrew Antenna Equipment				X			
4	Argus Technologies Inc., Equipment				X			
101	Axis Communications Equipment	X	X	X	X	X	X	
19	B&B Electronics Equipment	X	X	X	X	X		
32	B&B Roadway Equipment	X	X	X	X	X	X	
34	B&B Roadway Equipment	X	X	X	X	X	X	
3	Battery Power Systems, Inc., Equipment	X	X	X		X	X	
27	Bejed Equipment			X				
18	Black Box Equipment						X	
63	Cisco Systems Inc. Equipment	X	X	X	X	X	X	
6	Cohu Camera Equipment	X	X	X		X		
8	Cohu Camera Equipment	X	X	X		X		
78	Communication Specialties Incorporated (CSI) Equipment – (Deci-Mux)	X		X				
28	Communications Network Systems, Inc. Equipment	X	X	X		X	X	
90	Control Specialists Equipment (TIRTL)	X	X	X	X	X	X	
25	Corning Equipment						X	
84	Daktronics, Inc Equipment	See note		X	X	X	X	Note: NWR, Prefers to use their performance specification which lists Daktronics, Skyline and Mark IV as alternatives.
86	Daktronics, Inc Equipment	See note		X	X	X	X	Note: NWR, Prefers to use their performance specification which lists Daktronics, Skyline and Mark IV as alternatives.
88	Daktronics, Inc Equipment	X		X	X	X	X	
48	Diamond Traffic Products Equipment					X		
67	DIGI Equipment	X	X					
37	DIGI Equipment (Connectport VPN)	X	X	X	X	X		
68	Eagle Equipment	X				X	X	
16	Eberle Equipment	X	X	X	X	X	X	
76	Edco Equipment	X	X	X	X	X	X	
15	EDI Series Equipment	X	X	X	X	X	X	
92	Electronic Integrated Systems (EIS) RTMS Equipment		X	X		X	X	
14	Emerson Network Power Pre-cast Concrete Walk-in Building	X	X	X	X	X	X	Note: Marconi Communications, Inc was bought out by Emerson
105	Encom Equipment	X	X	X	X	X	X	
110	Encom Equipment					X		
115	Encom Equipment	X	X	X		X		
58	EtherWAN Systems Inc. Equipment		X		X	X	X	
74	EtherWAN Systems Inc. Equipment				X	X	X	
10	Everfocus Electronic Corporation Equipment				X			
85	Fiber Optics Display Systems (FDS) Equipment		X					
87	Fiber Optics Display Systems (FDS) Equipment		X					
89	Fiber Optics Display Systems (FDS) Equipment		X					
98	GE Security Equipment	X				X	X	
72	Gen/Tran Equipment	X	X	X	X	X	X	
36	General Device Incorporated(GDI) Equipment	X	X	X	X	X	X	
40	General Device Incorporated(GDI) Equipment			X				
45	General Electric Equipment						X	MDS iNET Equipment
43	Getwireless Equipment	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS.
49	Glen Martin Engineering Equipment	X	X	X	X	X	X	This tower is used by both SSI and VAISALA for RWIS systems.
116	Harris Equipment				X			

Appendix B - (Statewide Proprietary Approved Item - A to Z)

Updated 1-17-07

Item Number	Categories of Equipment	Region Approved to Use Proprietary Item						Comments
		NWR	OR	SWR	NCR	SCR	ER	
31	Highway Information Systems, Inc. (HIS) Equipment	X	X	X	X	X	X	
33	Holophane High-Mast Illumination Lowering Device Systems (LD5 or Current Model)	X	X	X	X	X	X	
22	IndigoVision Equipment				X			
103	IndigoVision Equipment		X	X	X	X		
42	Infotec Equipment	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS.
60	International Fiber Systems (IFS) Inc. Equipment		X		X	X		
75	International Fiber Systems (IFS) Inc. Equipment		X					
82	International Fiber Systems (IFS) Inc. Equipment		X			X		
96	International Road Dynamics (IRD) Equipment	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS.
94	Iteris Video Detection Equipment.	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS.
47	Jamar Technologies Inc. Equipment	X	X	X	X		X	
95	Kar-Gore, Inc Video Detection Equipment (Traficon)	X	X	X	X	X	X	
99	Kramer Electronics Equipment		X		X			
79	Lamar Video Equipment		X		X	X		
66	Lantronix Equipment				X		X	
108	MaxRad Antenna Equipment	X	X	X		X	X	
70	McCain Equipment				X			
106	MDS INET Equipment	X	X	X	X	X	X	
111	MDS INET Equipment	X	X	X	X		X	
21	Mirasys (Dina/Polaris) Equipment	X	X	X		X	X	
30	Morad Antenna Equipment	X	X	X	X	X	X	
17	MOXA Equipment	X	X	X	X	X	X	
65	MOXA Equipment			X		X		
46	MRX Platinum-300 Motion Sensor Equipment	X	X	X	X	X	X	
69	Naztec Equipment			X				
5	Newmar Equipment				X			
59	Optelecom Equipment			X				
80	Optelecom Equipment						X	
81	Optelecom Equipment	X		X	X		X	
104	Optelecom Equipment						X	
54	Pelco Astro Sign-Brac	X	X	X	X	X	X	
7	Pelco Camera Equipment				X		X	
9	Pelco Camera Equipment						X	
13	Pelco Equipment	X	X	X	X	X	X	
100	Pelco Equipment			X				
11	Pelco Equipment	X	X	X	X	X	X	
35	Pips Technology License Plate Reader (LPR) Equipment	X	X	X	X	X	X	
1	Polara Engineering, Inc. Equipment	X	X	X	X	X	X	
56	Quintim Technologies Equipment	X	X	X	X	X	X	
71	Quixote (NEMA) TMP 390 Equipment		X					Note: Traconex is owned by Quixote
102	Radiant Communications Corporation Equipment	X						
73	Radiant Communications Corporation Equipment	X		X				
44	Raven Equipment	X	X	X	X	X		
97	Reno A&E Equipment	X	X	X	X	X	X	
57	Ruggedcom Equipment	X		X				
64	Ruggedcom Equipment	X	X	X	X	X	X	
53	Skyline Drum Sign Equipment	X	X	X	X	X	X	
113	Solectek Skyway short, mid and long range wireless microwave equipment	X	X	X	X	X	X	
91	Speed Info Equipment	X	X	X	X	X	X	
50	SSI Roadway Weather Information System Equipment			X		X	X	
52	SSI Roadway Weather Information System Equipment	X	X	N/A	X	N/A	N/A	
55	TAPCO Products and Equipment	X	X	X	X	X	X	

Appendix B - (Statewide Proprietary Approved Item - A to Z)

Updated 1-17-07

Item Number	Categories of Equipment	Region Approved to Use Proprietary Item						Comments
		NWR	OR	SWR	NCR	SCR	ER	
29	Telect Equipment				X			
24	Telect LCX Equipment		X			X		
41	Telenetics Equipment				X	X		
38	Telular Equipment (Data Remote)						X	
77	Transtector Equipment	X	X	X	X	X	X	
39	US Robotics Equipment	X	X				X	
51	VAISALA Road and Runway Surface Analyzer (ROSA) Weather Station Equipment	X	X		X			
114	Valmont Equipment	X	X	X	X	X	X	
117	Varint Equipment						X	
12	Vicon Equipment	X	X	X	X	X	X	
61	Vicon Equipment						X	
93	Wavetronix Equipment	X			X			
83	Wells Sign Equipment	X	X	X	X	X	X	
112	Wi-Lan Radio Equipment	X	X	X	X	X	X	

Appendix C - (Statewide Blanket Proprietary Approved Item Categories of Equipment)

Updated 1-17-07

Item Number	Categories of Equipment
1	Audible Pedestrian Displays and Indications
2	Battery Backup Systems (General)
3	Battery Backup Systems (Large Microwave Sites)
4	Battery Backup Systems (Small Microwave Sites)
5	Closed Circuit Television Camera (CCTV) Equipment - Fixed Installations
6	Closed Circuit Television Camera (CCTV) Equipment - Pan, Tilt, Zoom (PTZ) Installations
7	Closed Circuit Television Camera (CCTV) Equipment (Attachment Hardware and Power Supply Only - No Camera)
8	Combiners, RS-422 (Camera Control Only)
9	Combiners, RS-422 (General)
10	Concrete Universal Enclosures (CUE) and Concrete Walk-in Buildings
11	Conflict Monitors (For Signals with Flashing Yellow Arrow Operation)
12	Conflict Monitors (General)
13	Converters (CVISN Applications Only (RS232 to IP, Serial to Ethernet, IP to Fiber))
14	Converters (HUB or Cabinet)
15	Cross-connect Panel
16	Digital Video Recorder (DVR)
17	Emergency Vehicle Preemption (EVP)
18	Fiber Optic Patch Panels
19	Fuse / Alarm Panel
20	Highway Advisory Radio (HAR) Antenna Equipment Only
21	Highway Advisory Radio (HAR) Equipment
22	Horizontal Warning Gates
23	Illumination (High Mast Lowering Device Systems)
24	Illumination (Navigation Systems)
25	License Plate Reader (LPR)
26	Modems - (For use with <i>State Owned</i> Twisted Pair Conductors)
27	Modems - Cellular (General Use)
28	Modems - Dial Up (For Transportation Data Office (TDO) Applications)
29	Modems - Dial Up (General Use)
30	Modems - IP Wireless (For Transportation Data Office (TDO) Applications)
31	Modems - IP Wireless (General Use)
32	Motion Sensor Equipment
33	Permanent Traffic Recorders
34	Roadway Weather Information Systems (RWIS)
35	Roadway Weather Information Systems (RWIS) - Tower Structure
36	Roadway Weather Information Systems (RWIS) (Replacement Parts Only; Existing Systems)
37	Signs (Mechanical)
38	Signs (Mounting Brackets)
39	Signs (with Embedded Flashing Lights)
40	Switch (Voice-over-IP)
41	Switch, Video or Data - (Ethernet)
42	Switches, Video or Data (General) - Analogue and Ethernet
43	Synchronous Optical NETwork (SONET) System
44	Terminal Server (Field/Cabinet)
45	Terminal Server (HUB)
46	Traffic Signal Controller Equipment (2070, 2070L(Light) and 2070N(Nema))
47	Traffic Signal Transfer Switch
48	Transceiver (Fiber Optic/Ethernet)
49	Transient Voltage / Surge Suppression Systems (Communication Applications)
50	Transient Voltage / Surge Suppression Systems (Line Applications)
51	Transmission (Video or Data)
52	Transmitters and Receivers (Video and Data)

Appendix C - (Statewide Blanket Proprietary Approved Item Categories of Equipment)

Updated 1-17-07

Item Number	Categories of Equipment
53	Variable Message Signs (VMS) - CVISN Applications
54	Variable Message Signs (VMS) - Front Access Type
55	Variable Message Signs (VMS) - Variable Speed Limit or Lane Utilization Type
56	Variable Message Signs (VMS) - Walk-In Type
57	Vehicle Detection (Infra-red Light)
58	Vehicle Detection (Microwave (Speeds Only))
59	Vehicle Detection (Microwave (Speeds, Counts and Classification))
60	Vehicle Detection (Video (Transportation Data Office (TDO) Applications))
61	Vehicle Detection (Video)
62	Vehicle Detection (Weigh-in-Motion (Transportation Data Office (TDO) Applications))
63	Vehicle Detectors (Loops)
64	Video and Data Servers; Video Encoder/Decoder Equipment (Fixed Snap Shot Cameras)
65	Video and Data Servers; Video Encoder/Decoder Equipment (Live Streaming Video Cameras)
66	Video Distribution Amplifier
67	Wireless Communication (170 Traffic Signal Controller Interconnect)
68	Wireless Communication (900 Mhz non-line of Sight Ethernet or Non-Video Data)
69	Wireless Communication (Antennas)
70	Wireless Communication (Backbone, Point-to-Point Long Range)
71	Wireless Communication (IP Wireless and 2070 Traffic Signal Controller Interconnect)
72	Wireless Communication (Short Haul or Line of Sight ONLY)
73	Wireless Communication (Short, Mid and Long Range)
74	Wireless Communication (Towers and non-radio Equipment)
75	Wireless Digital Communication (Video and Non-Video Data)