

Kalisch, Kent

From: Bailey, Ted
Sent: Wednesday, June 20, 2012 10:15 AM
To: WSDOT ITS Steering Committee; WSDOT SIMMS Steering Committee
Cc: WSDOT Traffic Engineers; Bakotich, Pasco; Barry, Ed (HQ Design); Lippincott, Greg; Zeller, Scott; Kalisch, Kent; Sielbach, Kurt; Tevis, John; Siddiqui, Akmal; Davis, David (HQ) (Purchasing); Williams, Kimberly (HQ Purchasing); Cohrs, Kenneth
Subject: The current Statewide Blanket Proprietary Approval for Traffic / ITS Equipment and Software has been extended until December 31st, 2012

All,

The current [Statewide Blanket Proprietary Approval for Traffic / ITS Equipment and Software](#) has been extended until December 31st, 2012. The purpose of this email is to serve as documentation of this approval from FHWA. The new proprietary equipment list, that you are all working to provide comments on by July 6th, will follow the new self-certification process once the process details are worked out.

As a reminder this approval covers equipment specified into contracts **NOT** equipment WSDOT purchases directly. The [ITS Equipment Contract](#), which is currently being expanded, covers WSDOT purchased ITS equipment. As an additional reminder this approval requires project specific justification be placed in the project file along with adherence to Buy America or Buy American provisions as appropriate. (see approval document online for more details.)

Please share this information at your discretion to ensure all appropriate parties are informed.

Ted Bailey, P.E. | Signals, Illumination & ITS Engineer | Washington State Department of Transportation
Design | Procurement | Asset Management | Performance Measures | Research | New Products |
360-705-7286 | baileyte@wsdot.wa.gov | www.wsdot.wa.gov/Design/Traffic/



**Washington State
Department of Transportation**

From: don.petersen@dot.gov [mailto:don.petersen@dot.gov]
Sent: Tuesday, June 19, 2012 6:24 PM
To: Bailey, Ted
Cc: Kalisch, Kent; Zeller, Scott
Subject: RE: "Statewide Blanket for Traffic / ITS Equipment and Software" request to extended until December 31st, 2012

Ted

Sorry for the delay in acting on this. FHWA has reviewed WSDOT's request to extend the Statewide Blanket for Traffic / ITS Equipment and Software" until December 31st, 2012 and approve it. We expect that by December 31, 2012 WSDOT will have developed a self certification document that will encompass the necessary equipment currently covered by this document and the Statewide Blanket will not be needed any longer.

Don

Don Petersen
Safety/Geometric Design Engineer

FHWA – Washington Division
711 S Capitol Way, Suite 501
Olympia, WA 98501
Phone: 360-534-9323
FAX: 360-753-9889

From: Bailey, Ted
Sent: Wednesday, June 06, 2012 2:10 PM
To: Petersen, Don (FHWA) (Don.Petersen@dot.gov)
Cc: Kalisch, Kent; Zeller, Scott
Subject: "Statewide Blanket for Traffic / ITS Equipment and Software" request to extended until December 31st, 2012

Hi Don,

The purpose of this email is to request an additional 6 month extension of the Current Statewide Blanket Approval for Traffic/ITS Equipment and Software to allow time for WSDOT to continue development of a self certification document that will encompass the necessary equipment currently covered by this document. I have attached my draft self-certification document for your information so you can see my proposed direction. In the meantime, this extension would approve the Current Statewide Blanket Approval for Traffic/ITS Equipment and Software through December 31st, 2012.

Thank you for your continued support!

Ted Bailey, P.E. | Signals, Illumination & ITS Engineer | Washington State Department of Transportation
Design | Procurement | Asset Management | Performance Measures | Research | New Products |
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From: James.Colyar@dot.gov [<mailto:James.Colyar@dot.gov>]
Sent: Thursday, December 15, 2011 9:30 AM
To: Bailey, Ted; Asarhan@dot.gov
Cc: Petersen, Don (FHWA); Kalisch, Kent
Subject: RE: Request to extend the current "Statewide Blanket Approval Request for Traffic / ITS Equipment and Software" until June 30th, 2012

Ted,

Thanks for the good discussion the other day. I've discussed this with Don as well.

Your request to extend the current Statewide Blanket Approval for Traffic/ITS Equipment and Software to June 30th, 2012 is approved.

Regards,
James

James Colyar, P.E.
Federal Highway Administration
711 S. Capitol Way, Suite 501
Olympia, WA 98501-1284

From: Bailey, Ted [<mailto:BaileyTe@wsdot.wa.gov>]
Sent: Tuesday, December 13, 2011 4:56 PM
To: Colyar, James (FHWA); Sarhan, Anthony (FHWA)
Cc: Petersen, Don (FHWA); Kalisch, Kent
Subject: Request to extend the current "Statewide Blanket Approval Request for Traffic / ITS Equipment and Software" until June 30th, 2012
Importance: High

James and Anthony,

Per our discussion today I am writing to request an additional 6 month extension of the **Current Statewide Blanket Approval for Traffic/ITS Equipment and Software** to allow time for WSDOT and FHWA to coordinate process changes that are likely to occur as a result of the attached memo. This extension would approve the **Current Statewide Blanket Approval for Traffic/ITS Equipment and Software** through June 30th, 2012.

Thank you both for the great discussion this afternoon!

Ted Bailey P.E. | Traffic Signals, Illumination & ITS Engineer, Washington State DOT Traffic Design and Operations |
|w 360-705-7286 | baileyte@wsdot.wa.gov | www.wsdot.wa.gov/Design/Traffic

From: don.petersen@dot.gov [<mailto:don.petersen@dot.gov>]
Sent: Wednesday, July 13, 2011 9:50 AM
To: Bailey, Ted
Cc: Kalisch, Kent
Subject: RE: Email documenting 6 month extension of the "Statewide Blanket Approval Request for Traffic / ITS Equipment and Software - Proprietary Item Request"

Ted

Your request to extend the current Statewide Blanket Approval for Traffic/ITS Equipment and Software to December 31, 2011 is approved.

Don

Don Petersen
FHWA Safety/Geometric Design Engineer
711 S Capitol Way, Suite 501
Olympia, WA 98501
Phone: (360) 534-9323
FAX: (360) 753-9889
e-mail: don.petersen@dot.gov

From: Bailey, Ted [<mailto:BaileyTe@wsdot.wa.gov>]
Sent: Monday, July 11, 2011 2:06 PM
To: Petersen, Don (FHWA)
Cc: Kalisch, Kent
Subject: Email documenting 6 month extension of the "Statewide Blanket Approval Request for Traffic / ITS Equipment and Software - Proprietary Item Request"
Importance: High

Don,

Per or phone conversation last week the purpose of this email is to document FHWA's approval of a 6 month extension of the "**Statewide Blanket Approval Request for Traffic / ITS Equipment and Software – Proprietary Item Request**" <http://www.wsdot.wa.gov/publications/fulltext/ProjectDev/DocApprovalEx/09-0014.pdf>

As a result the **Statewide Blanket Approval Request for Traffic / ITS Equipment and Software – Proprietary Item Request** will be effective until December 31st, 2011.

Per our discussion, please respond in concurrence.

Thanks for your continued support!

Ted Bailey P.E. | Traffic Signals, Illumination & ITS Engineer, Washington State DOT Traffic Design and Operations|

|w 360-705-7286 | baileyte@wsdot.wa.gov | www.wsdot.wa.gov/Design/Traffic



U.S. Department
of Transportation

**Federal Highway
Administration**

Washington Division

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711 South Capitol Way
Olympia, Washington 98501-1284
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<http://www.fhwa.dot.gov/wadiv>

July 13, 2009

HDE-WA/ 435.6

Ms. Paula J. Hammond
Secretary of Transportation
Department of Transportation
Olympia, Washington

Attention: Pasco Bakotich III

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

Dear Ms. Hammond:

We have reviewed the documentation submitted with your June 16, 2009, letter requesting FHWA approval of a statewide blanket approval request for Traffic / ITS Equipment and Software.

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).

WSDOT has committed to assembling an ITS steering committee during the 2009-2011 biennium with the purpose of defining a process for performance specification development along with reviewing the list of equipment categories identified for feasibility in developing performance specifications. We ask that James Colyar, Division ITS/Mobility Engineer, included as a member of the ITS Steering Committee.

We suggest that one area the ITS Steering Committee should address the applicability of incorporating national ITS standards (e.g., NTCIP) into the performance specifications process. While not all ITS standards are fully complete and tested, there are a number of specific standards that are mature and are capable of delivering the goal of interoperability between different vendors' products. The Steering Committee should investigate these standards, identify which ones are mature enough to deliver interoperability, and incorporate those as one set of the broader goal of developing performance specifications.



We agree that 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 synchronize 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.

Your letter notes that "Buy America" requirements are not covered or accounted for in this blanket approval due to the broad scope nature of the proprietary equipment and categories. It must be emphasized that this approval does not relieve WSDOT of the Buy America requirements. If this same approach is used in the future, we suggest that a certification be included stating that no products on the list are made with foreign steel and that none are manufactured in foreign countries with foreign or domestic steel.

Your request to use the enclosed statewide blanket proprietary item list for the 2009-2011 biennium is approved.

Please contact Don Petersen at 360-534-9323 or Don.Petersen@dot.gov or James Colyar at 360-753-9408 or James.Colyar@dot.gov if you have any questions regarding this action.

Sincerely,

DANIEL M. MATHIS, P.E.
Division Administrator



By: Donald A. Petersen
Division Safety/Design Engineer

Enclosure

CC: Ted Trepanier, MS 47344, Ted Bailey, MS 47344, Kent Kalisch, MS 47329, James Colyar



Washington State
Department of Transportation
Paula J. Hammond, P.E.
Secretary of Transportation

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310 Maple Park Avenue S.E.
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Olympia, WA 98504-7300

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TTY: 1-800-833-6388
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June 16, 2009

Mr. Dan Mathis
Division Administrator
Federal Highway Administration
711 South Capitol Way, Suite 501
Olympia, WA 98501-1284

Attn: Don Petersen

Subject: Statewide Blanket Approval Request for Traffic / ITS Equipment and
Software
Proprietary Item Request

Dear Mr. Mathis:

Attached is a statewide blanket approval request for proprietary equipment and associated software for traffic control; monitoring and information systems; and other intelligent transportation system components.

The 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.

In all cases an item will be approved only because it meets one or more of the reasons for justification and it is in the public's best interest.

It is possible that these items will be used on future New/Reconstruction projects, thus these requests are being forwarded to FHWA for review and approval.

We concur with the request for proprietary item use through the end of the 2009 – 2011 biennium.

Sincerely,

Pasco Bakotich III
State Design Engineer



Memorandum

DATE: June 15, 2009

TO: Pasco Bakotich
State Design Engineer
MS-47330

Approval of State Design Engineer

Name: Pasco Bakotich

THRU: Ted Trepanier *CT*
Director of Traffic Operations
(360)705-7280
MS-47344

Signature: *Pasco Bakotich*

Date: 6/15/09

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

SUBJECT:

- **WSDOT Report on the Strengths and Weaknesses of the Current Statewide Blanket Approval for Traffic/ITS Equipment and Software that Expires on June 30, 2009**
- **Request for Continued Statewide Blanket Proprietary Item(s) Approval for the stated equipment and software for the period of July 1, 2009 – June 30, 2011**

On February 12, 2008 FHWA approved a Statewide Blanket for Traffic/ITS Equipment and Software. As a condition of this approval WSDOT is required to submit a report on the strengths and weaknesses of the blanket approval by June 20, 2009. The following documentation is intended to fulfill this requirement while simultaneously requesting continued approval for the subsequent biennium.

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

TJB:tjb

Attachments:

- Appendix A – (Statewide Blanket Proprietary Approval Matrix)
- Appendix B – (Statewide Proprietary Approved Items - 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

Statewide Blanket Proprietary Item(s) Approval Request

Strengths and Weaknesses of the Current Statewide Blanket Approval

The following survey questions were directed towards maintenance, design, design reviewers, Assistant State Design Engineers and their liaisons, project development engineers and others involved in ITS procurement in an effort to insight into the current approval process. The bulleted answers below each question summarize the typical types of responses. A recommended course of action has been identified after select bullets to provide additional direction going forward.

1.) What are your thoughts related to the "**Strengths**" of this approval?

- *Time saved during the design documentation process, both in development, review and processing for signature approvals.*
- *Assists the contractor in providing a component that will function in an existing system without modification. Performance specifications can be long and difficult for the contractor and manufactures to decipher what equipment is being requested and what competitors' products meet the specification.*
- *The blanket approval eliminates redundant requests for identical equipment in different regions with the same intended purpose.*
- *Provides a well organized and comprehensive list of items that are needed and in use for ITS projects.*
- *Provides the documentation necessary to fulfill CFR requirements.*
- *Reduces maintenance costs by focusing equipment procurement towards proven manufactures.*
- *Reduces training costs by focusing equipment procurement towards existing manufactures where legacy experience exists.*
- *Clearly identifies to local agencies and other jurisdictions where WSDOT is headed and provides direction to those with less resources and expertise available for selecting equipment.*

2.) What are your thoughts related to the "**Weaknesses**" of this approval? Do you have any suggested process improvements that would improve effective project delivery?

- *It would be helpful to know who is responsible for maintaining this list along with an explanation of how manufactures are added and removed from the list along with an explanation of the process for developing performance specifications. **Action taken** → **Name of responsible person added to the blanket approval documentation. Manufactures and Equipment Categories are added and removed based on input from subject matter experts statewide along with review of project specific proprietary item requests that occur throughout the biennium. Developing effective performance specifications has been challenging due to available resources and the technical complexity of ITS. During the 2009-2011 biennium, WSDOT will commit to assembling an ITS steering committee with the purpose of defining a process for performance specification development.***
- *From a technical viewpoint it would be helpful for items on the list to be precisely defined instead of simply stating the manufacture and category of equipment. It would be an improvement to list exactly what products are acceptable and then move towards performance specifications to the extent possible. **Action taken** → **As stated above WSDOT is committed to moving towards defining a process for performance specification development.***

Statewide Blanket Proprietary Item(s) Approval Request

*Although it would be helpful to precisely define equipment on the blanket approval it would be extremely resource intensive and dynamic in nature due to the evolving nature of ITS and difficulty in predetermining specific equipment needs due to ITS inherent complexity. **The Systems Engineering Process works well for ITS precisely because it allows for flexibility throughout all phases of a project, scoping through evaluation and operation. The current broad scope nature of the blanket approval facilitates this preferred flexibility by allowing for more timely specification changes. In addition, equipment needs are identified that align more accurately with project development needs.***

- *It is difficult to monitor the required documentation since only a subset of project files are reviewed during process reviews. **Action taken** → *The revised process will require a copy of the project file documentation be sent to Ted Bailey, the person responsible for reporting on the strengths and weaknesses of the statewide blanket approval.**
- *Requiring documentation in the project file only saves the workload necessary to prepare the documents for approval authority signatures. If approval is granted for the subject manufactures and categories there shouldn't be any need for additional project specific justification. **Action taken** → *This step is necessary to ensure accountability for such a broad blanket approval. Education and additional direction will be given to assist in preparing appropriate documentation more efficiently.**
- *With broad equipment category titles it is sometimes difficult to identify if the equipment manufacturer specified in a project corresponds with what is on the approved list. **Action taken** → *This issue will be addressed in the ITS steering committee.**
- *Increase communication with maintenance to ensure equipment specified is well understood and properly maintained. **Action taken** → *This issue will be addressed in the ITS steering committee.**

3.) Has it reduced your work load for ITS related proprietary requests?

- *Design Comment - Not a great deal, but enough that it is noticeable.*
- *Design Liaison Comment - In 2006 there were 18 proprietary requests/approvals for Traffic/ITS. In 2007 there were eight. After the statewide blanket approval in January of 2008, there was only one request/approval for the next year.*
- *Region Design Review Comment - Not from my perspective. The workload is the same (preparing the justification), the only benefit is a week or two time savings to collect approval signatures.*
- *Design Liaison Comment – It has reduced the amount of review time needed to provide the proper documentation. I can review items identified in the special provisions and quickly verify in the list.*

4.) Do you think the use of this approval is well understood? If not, what areas need to be improved?

- *Design Liaison Comment - The approval is well understood. We have experienced a few questions related to the required documentation that needs to be in the project file.*
- *Design Comment - It would an improvement to develop guidelines for the use of the approval.*
- *There has been some confusion related to “Buy America” requirements. Due to the broad scope of the equipment identified it is impractical and inefficient to fulfill Buy America requirements prior to or as part of the blanket proprietary approval. **Action taken** → *Additional guidance is included as part of the new blanket proprietary approval request.**

Statewide Blanket Proprietary Item(s) Approval Request

- *There has been some confusion on where the blanket approval applies, contractor supplied vs. state supplied materials. Projects that are awarded to a contractor can reference the blanket approval in the project documentation and then specify the proprietary equipment as necessary for procurement by the contractor. State supplied material procurement has independent procurement requirements, General Administration or Department of Information Services procurement authority procedures along with separate sole source or proprietary justification requirements. **Action taken** → **Additional guidance will be added to the Plans Preparation Manual, M22-31.***

5.) The following excerpt was taken from the previous proprietary approval letter requirements. What are your thoughts related to this requirement?

“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 statement above provides good project specific backup documentation and should remain as part of the project documentation.*
- *Requiring documentation in the project file only saves the workload necessary to prepare the documents for approval authority signatures. If approval is granted for the subject manufactures and categories there shouldn't be any need for additional project specific justification.*
- *The PS&E Review Process in the Regions, which includes full time reviewers, should catch the need for Proprietary Item Request before a contract goes out. All regions have a Status Checklist which requires Proprietary Item approval. **Action taken** → **This step is necessary to ensure accountability for such a broad blanket approval. Education and additional direction will be given to assist in preparing appropriate documentation more efficiently. The requirements in the new blanket proprietary approval request have been modified slightly to provide additional direction along with an additional requirement to send a copy of the project documentation to Ted Bailey, the person responsible for reporting on the strengths and weaknesses of the statewide blanket approval.***

The strengths and weakness identified above identify that the process is working well, but WSDOT still has some ground cover in areas identified by the action items. In addition, a more clearly identified process for moving towards performance specifications is needed. A positive step in this regard was WSDOT's effort to develop and implement a performance specification for Walk-In and Front Access Variable Message Signs through the Department of General Administration. After nearly two years of work involving technical experts and stakeholders across the state, WSDOT is currently reviewing six bid proposals for the subject equipment. Although this performance specification will eventually remove the need to identify two proprietary VMS manufactures, there is still some question to whether the performance specification is adequate. Since the bid has not been awarded we need to keep details at a minimum, but what we can say is that the low bidder had two exceptions to the lengthy technical specification that ultimately led to their rejection. These exceptions took weeks to

Statewide Blanket Proprietary Item(s) Approval Request

ferret out and examine and during a construction project, would have likely led to a delay in project delivery and/or the acceptance of inferior equipment with long term maintenance and operational impacts. The point of this example is not to fire against performance specifications and competitive award, but rather serve as a reminder that there are trade offs to performance specifications. The most significant tradeoff is the investment in personnel that is necessary to develop and maintain a solid performance specification. The second is the risk associated with the unknown when, for the example above, an overseas company, without a single North American installation, bids on, and is nearly awarded, a contract to provide equipment, with the potential for long term maintenance and operational impacts. Stepping out into the unknown is necessary, but is best initiated in an intentionally controlled environment such as project specific proprietary approvals.

In a good faith effort to continue our move towards performance specifications we have identified the following equipment categories and category topics as candidates for continued discussion: Fiber Optic Patch Panels; Modems; Switches; Traffic Signal Controller Equipment; Transceivers; Transmission Equipment; Transmitters and Receivers; Variable Message Signs; and Wireless Communication. Similarly to our experience with VMS, we believe it is a prudent step to continue proprietary approval for a minimum of one biennium after the performance specifications for a given category of equipment has been developed. This will allow an alternative procurement method in the event that, after use in a few contracts, the performance specification is found to be inadequate.

As noted in the action items above, during the 2009-2011 biennium, WSDOT will commit to assembling an ITS steering committee with the purpose of defining a process for performance specification development along with reviewing the list of equipment categories identified above for feasibility in developing performance specifications. I believe that in order to successfully take larger steps towards performance specifications WSDOT would need to identify eight (8) Full Time Employees (FTEs), one (1) in each region and two (2) at headquarters, with a significant portion of their time directed towards performance specification development for ITS. Currently, due to the economy and the focus on project delivery it is not economically viable to dedicate this level of commitment towards performance specification development especially when alternative proven procurement methods are available that allows WSDOT to accomplish its mission.

Statewide Blanket Proprietary Item(s) Approval Request

Request for Continued Statewide Blanket Proprietary Item(s) Approval

The Traffic Operations Division would like to continue a process with the State Design Office and FHWA that began in February of 2008. Created was 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. Consistent with the previous approval, this list of items is primarily comprised of specialized electrical and electronic equipment or structural components that are an integral part of this equipment. When approved, the list of equipment would be approved for an additional two (2) year period beginning on July 1, 2009. At the end of the 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 are 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 continue the increased efficiency in project delivery by reducing redundant proprietary approval requests on various statewide projects for the use of identical equipment with similar justifications. The secondary goal is to continue improving standardization and interoperability of equipment between 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.

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. **The cells in Appendix A that are highlighted in pink indicate modifications or corrections to the previous list of approved items.**

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), model number(s) if available, and timely justifications that are most relevant at the time the proprietary item is selected during the design process. A brief statement describing the thought process leading up to the selection of the proprietary material shall be provided to document the decision making process. A copy of this justification shall be sent to Ted Bailey, Traffic Operations Division, 310 Maple Park Avenue SE, PO Box 47344, Olympia, WA 98501 (MS#47344). 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.

Statewide Blanket Proprietary Item(s) Approval Request

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 still 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. WSDOT's experience has shown for critical electronic components and software it is best to test the operation of a specific manufacturer's 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 broad scope justification and the significant cost, effort, and expertise required to develop and maintain cost effective and timely performance specifications that would encompass the items listed in Appendix A, it is still 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. There are adjoining jurisdictional differences, geographical differences, differences in the availability of the technology in each Region, issues with 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 manufacturers 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.

Statewide Blanket Proprietary Item(s) Approval Request

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). **As an added accountability step that will aid the ITS Steering Committee a copy of all project specific proprietary approvals and documentation that is required for the statewide blanket proprietary approval will be sent to the Traffic Operations Division.**

It may take considerable time to evolve to the performance specification approach because there is a primary obstacle which is out of our control. That obstacle 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 continue to report on the strengths and stretches of this blanket proprietary approval approach with a subsequent report by June 30, 2011.** 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.

It should be noted that “Buy America” requirements are not covered or accounted for in this blanket approval due to the broad scope nature of the proprietary equipment and categories. It is the responsibility of the Project Engineer or Project Manager to ensure that DOT Form 350-109 EF, Certificate of Materials Origin, is completed for all equipment being specified in the contract. Since WSDOT, as an agency, receives Federal Aid, this form is a requirement for all projects regardless of whether Federal Aid is being used specifically for the subject project.

Appendix A - (Statewide Blanket Proprietary Approval Matrix)

Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov		Region Approved to Use Proprietary Item						Updated 6-15-09	
Item Number	Categories of Equipment (with approved manufacturers per category)	NWR	OR	SWR	NCR	SCR	ER	Comments	
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			
9	Pelco Camera Equipment			X			X	Note: SWR uses Panasonic Cameras in a Pelco Housing	
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		
Closed Circuit Television Camera (CCTV) Equipment - INFRARED									
12	Bosch Equipment	X	X	X	X	X	X		
Combiners, RS-422 (General)									
13	Vicon Equipment	Basic Definition: Combines data from Multiple sources into one stream.							
		X	X	X	X	X	X		
Combiners, RS-422 (Camera Control Only)									
14	Pelco Equipment	X			X	X	X		
15	Vicon Equipment		X	X					
Concrete Universal Enclosures (CUE) and Concrete Walk-in Buildings									
16	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)									
17	EDI Series Equipment	X	X	X	X	X	X		
Conflict Monitors (For Signals with Flashing Yellow Arrow Operation)									
18	Eberle Equipment	X	X	X	X	X	X		
Converters (CVISN Applications Only (RS232 to IP, Serial to Ethernet, IP to Fiber))									
19	MOXA Equipment	Basic Definition: A device that converts data from analog to digital; digital to analog; or from one form to another such as IP to Fiber.							
		X	X	X	X	X	X		
Converters (HUB or Cabinet) - IP to Fiber									
20	Black Box Equipment						X		
21	Optelecom Equipment			X					
22	B&B Electronics Equipment	X	X		X	X			
Converters (HUB or Cabinet) - RS422 to RS232									
23	Black Box Equipment						X		
24	B&B Electronics Equipment	X	X	X	X	X			

Appendix A - (Statewide Blanket Proprietary Approval Matrix)

Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov		Region Approved to Use Proprietary Item						Updated 6-15-09
Item Number	Categories of Equipment (with approved manufacturers per category)	NWR	OR	SWR	NCR	SCR	ER	Comments
Converters (HUB or Cabinet) - Serial to IP		Basic Definition: A device that converts data from analog to digital; digital to analog						
25	Black Box Equipment						X	
26	Ruggedcom Equipment			X				
27	MOXA Equipment					X		
28	B&B Electronics Equipment	X	X		X	X		
Cross-connect Panel								
29	ADC Equipment	X	X	X	X	X	X	
Digital Video Recorder (DVR)								
30	Mirasys (Dina/Polaris) Equipment	X	X	X		X	X	
31	Indigovision Equipment				X			
Emergency Vehicle Preemption (EVP)								
32	Global Traffic Technologies Equipment(<i>Note: Previously 3M Opticom Equipment</i>)	X	X	X	X	X	X	
Fiber Optic Patch Panels								
33	Telect LCX Equipment		X			X		
34	Corning Equipment						X	
35	ADC Equipment	X			X			
36	Bejed Equipment			X				
Fuse / Alarm Panel								
37	Communications Network Systems, Inc. Equipment	X	X	X		X	X	
38	Telect Equipment				X			
Highway Advisory Radio (HAR) Antenna Equipment Only								
39	Morad Antenna Equipment	X	X	X	X	X	X	
Highway Advisory Radio (HAR) Equipment								
40	Highway Information Systems, Inc. (HIS) Equipment	X	X	X	X	X	X	
Horizontal Warning Gates								
41	B&B Roadway Equipment	X	X	X	X	X	X	
Illumination (High Mast Lowering Device Systems)								
42	Holophane High-Mast Illumination Lowering Device Systems (LD5 or Current Model)	40	X	X	X	X	X	
Illumination (Tunnel Lighting Control Systems)								
43	PLC-Multipoint Inc. Equipment	X	X	X	X	X	X	www.plcmultipoint.com/
Illumination (Navigation Systems)								
44	B&B Roadway Equipment	X	X	X	X	X	X	
License Plate Reader (LPR)								
45	Pips Technology License Plate Reader (LPR) Equipment	X	X	X	X	X	X	
Modems - (For use with State Owned Twisted Pair Conductors)								
46	General Device Incorporated(GDI) Equipment	X	X	X	X	X	X	
Modems - Cellular (General Use)								
47	DIGI Equipment (Connectport VPN)	X	X	X	X	X		
48	Tetular Equipment (Data Remote)						X	
Modems - Dial Up (General Use)								
49	US Robotics Equipment	X	X	X			X	MDS INET Equipment
50	Telenetics Equipment				X	X		

Appendix A - (Statewide Blanket Proprietary Approval Matrix)

Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov		Region Approved to Use Proprietary Item						Updated 6-15-09
Item Number	Categories of Equipment (with approved manufacturers per category)	NWR	OR	SWR	NCR	SCR	ER	Comments
Modems - Dial Up (For Transportation Data Office (TDO) Applications)								
51	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)								
52	Sierra Wireless 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)								
53	Sierra Wireless Equipment	X	X	X	X	X		Raven and Airlink are products Manufactured by Sierra Wireless
54	General Electric Equipment						X	MDS INET Equipment
Motion Sensor Equipment								
55	MRX Platinum-300 Motion Sensor Equipment	X	X	X	X	X	X	
Portable Surveillance Trailers								
56	Wanco Inc. Equipment	X	X	X	X	X	X	www.wanco.com
Power Supply Systems								
57	Outback Power Systems Equipment	X	X	X	X	X	X	www.outbackpower.com/
Permanent Traffic Recorders								
58	Jamar Technologies Inc. Equipment	X	X	X	X		X	
59	Diamond Traffic Products Equipment					X		
Roadway Weather Information Systems (RWIS) - Tower Structure								
60	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)								
61	SSI Roadway Weather Information System Equipment			X		X	X	
62	VAISALA Road and Runway Surface Analyzer (ROSA) Weather Station Equipment	X	X		X			
Roadway Weather Information Systems (RWIS) (Replacement Parts Only; Existing Systems)								
63	SSI Roadway Weather Information System Equipment	X	X	N/A	X	N/A	N/A	
Router (Ethernet)								
64	Cisco Systems Inc. Equipment	X	X	X	X	X	X	
Sign Lighting Systems								
65	LUMI TRAK Inc. Equipment	X	X	X	X	X	X	www.lumitrak.com
Signs (Mechanical)								
66	Skyline Drum Sign Equipment	X	X	X	X	X	X	
Signs (Mounting Brackets)								
67	Pelco Astro Sign-Brac	X	X	X	X	X	X	
Signs (with Embedded Flashing Lights)								
68	TAPCO Products and Equipment	X	X	X	X	X	X	
Switch (Voice-over-IP)								
69	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.						
70	Ruggedcom Equipment	X		X				
71	EtherWAN Systems Inc. Equipment		X		X	X	X	

Appendix A - (Statewide Blanket Proprietary Approval Matrix)

Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov		Region Approved to Use Proprietary Item						Updated 6-15-09
Item Number	Categories of Equipment (with approved manufacturers per category)	NWR	OR	SWR	NCR	SCR	ER	Comments
Switches, Video or Data - (Analog, Ethernet and Fiber)		Basic Definition: Connects two segments of a network together that are using ethernet type connections.						
72	Philips Equipment			X				
73	International Fiber Systems (IFS) Inc. Equipment				X	X		
74	Vicon Equipment						X	
75	American Dynamics	X	X					
Synchronous Optical NETwork (SONET) System								
76	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.						
77	Ruggedcom Equipment	X	X	X	X	X	X	
Terminal Server (HUB)		Basic Definition: A device that aggregates multiple communication channels into one device.						
78	MOXA Equipment			X		X		
79	Lantronix Equipment				X		X	
80	DIGI Equipment	X	X					
Traffic Signal Controller Equipment and Software (170, 2070, 2070L(Light) and 2070N(Nema))								
81	Eagle Equipment	X				X	X	
82	Naztec Equipment			X				
83	McCain Equipment				X			
84	Econolite Equipment		X					
Traffic Signal Controller Equipment and Software (TMP 390)								
85	Quixote (NEMA) TMP 390 Equipment		X					
Traffic Signal Transfer Switch								
86	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.						
87	Radiant Communications Corporation Equipment	X						
88	Ruggedcom Equipment			X				
89	EtherWAN Systems Inc. Equipment				X	X	X	
90	International Fiber Systems (IFS) Inc. Equipment		X					
Transient Voltage / Surge Suppression Systems (Communication Applications)								
91	Edco Equipment	X	X	X	X	X	X	
Transient Voltage / Surge Suppression Systems (Line Applications)								
92	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.						
93	Communication Specialties Incorporated (CSI) Equipment – (Deci-Mux)	X						
94	IndigoVision Equipment			X				
95	Lamar Video Equipment		X		X	X		
96	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.						
97	Optelecom Equipment	X		X	X		X	
98	International Fiber Systems (IFS) Inc. Equipment		X			X		
Variable Message Signs (VMS) - CVISN Applications								
99	Wells Sign Equipment	X	X	X	X	X	X	
Variable Message Signs (VMS) - Front Access Type								
100	Daktronics, Inc Equipment	X		X	X	X	X	
101	SES America Equipment		X					

Appendix A - (Statewide Blanket Proprietary Approval Matrix)

Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov		Region Approved to Use Proprietary Item						Updated 6-15-09
Item Number	Categories of Equipment (with approved manufacturers per category)	NWR	OR	SWR	NCR	SCR	ER	Comments
Variable Message Signs (VMS) - Walk-In Type								
102	Daktronics, Inc Equipment	X		X	X	X	X	
103	SES America Equipment		X					
Variable Message Signs (VMS) - Variable Speed Limit or Lane Utilization Type								
104	Daktronics, Inc Equipment	X		X	X	X	X	
105	SES America Equipment		X					
Vehicle Detection (Infra-red Light)								
106	Control Specialists Equipment (TIRTL)	X	X	X	X	X	X	
Vehicle Detection (Microwave (Speeds Only))								
107	Speed Info Equipment	X	X	X	X	X	X	
Vehicle Detection (Microwave (Speeds, Counts and Classification))								
108	Electronic Integrated Systems (EIS) RTMS Equipment		X				X	
109	Wavetronix Equipment	X		X	X	X		
Vehicle Detection (Video (Transportation Data Office (TDO) Applications))								
110	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)								
111	Traficon Equipment	X	X	X	X	X	X	
Vehicle Detection (Weigh-in-Motion (Transportation Data Office (TDO) Applications))								
112	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)								
113	Reno A&E Equipment	X	X	X	X	X	X	
Vehicle Detectors (Magnetometer with Wireless Communications)								
114	SENSYS Networks	X	X	X	X	X	X	www.sensysnetworks.com
Weigh-in-Motion(WIM) System - (SubSystem Component Description)								
115	Cohu Equipment - (Security Camera Systems)	X	X	X	X	X	X	
116	Hoffman Equipment - (Commercial Vehicle (CV) Reader Controller Cabinet)	X	X	X	X	X	X	
117	International Road Dynamics (IRD) Equipment - (Weigh-In-Motion(WIM) Controller System)	X	X	X	X	X	X	
118	International Road Dynamics (IRD) Equipment - (Manual Override Console)	X	X	X	X	X	X	
119	International Road Dynamics (IRD) Equipment - (Load Cell Scale)	X	X	X	X	X	X	
120	Piezoelectric Sensors - (Measurement Specialties, Inc.(MSI))	X	X	X	X	X	X	
121	Trigg Industries Equipment - (Overheight Detectors)	X	X	X	X	X	X	
122	Iqinvision - (Enforcement Camera System)	X	X	X	X	X	X	
123	International Road Dynamics (IRD) Equipment - (Enforcement Camera System Assembly)	X	X	X	X	X	X	
124	Extreme CCTV Inc. - (Illuminator)	X	X	X	X	X	X	
125	Telematics Wireless USA Corp Equipment - (Automatic Vehicle Identification (AVI) System)	X	X	X	X	X	X	
126	Sinclair Technologies Inc. - (Antennas)	X	X	X	X	X	X	
127	International Road Dynamics (IRD) Equipment - (Outdoor Enclosure and Other Weigh-In-Motion System Components)	X	X	X	X	X	X	
128	International Road Dynamics (IRD) Equipment - Bending Plate – IRD - International Road Dynamics Corp.	X	X	X	X	X	X	
129	Lane Control System – Tassimco Technologies Canada Inc.	X	X	X	X	X	X	
130	PIPS Technology Equipment - (License Plate Reader (LPR) Cameras)	X	X	X	X	X	X	
131	Kistler Instrumente AG Equipment - (Lineas Quartz Sensors)	X	X	X	X	X	X	
132	International Road Dynamics (IRD) Equipment - (CVReader and Confirmation Reader Systems)	X	X	X	X	X	X	
133	International Road Dynamics (IRD) Equipment - (CVOCS)	X	X	X	X	X	X	

Appendix A - (Statewide Blanket Proprietary Approval Matrix)

Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov		Region Approved to Use Proprietary Item						Updated 6-15-09
Item Number	Categories of Equipment (with approved manufacturers per category)	NWR	OR	SWR	NCR	SCR	ER	Comments
Video Distribution Amplifier								
134	GE Security Equipment	X				X	X	
135	Kramer Electronics Equipment		X		X			
136	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.						
137	Axis Communications Equipment	X	X	X	X	X	X	
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.						
138	Radiant Communications Corporation Equipment	X						
139	IndigoVision Equipment		X	X	X	X		
140	Optelecom Equipment						X	
Wireless Communication (170 Traffic Signal Controller Interconnect)								
141	Encom Equipment	X	X	X	X	X	X	
Wireless Communication Antennas (Traffic Signal Controller Interconnect Applications)								
142	Astron Wireless Technologies, Inc. Equipment	X	X	X	X	X	X	Note: LOPRO Antennas
Wireless Communication (900 Mhz non-line of Sight Ethernet or Non-Video Data)								
143	MDS INET Equipment	X	X	X	X	X	X	
Wireless Communication (Antennas)								
144	Andrew Antenna Equipment				X			
145	MaxRad Antenna Equipment	X	X	X		X	X	
Wireless Communication (Backbone, Point-to-Point Long Range)								
146	Alcatel-Lucent Equipment (Microwave Radio)	X	X	X	X	X	X	
Wireless Communication (IP Wireless and 2070 Traffic Signal Controller Interconnect)								
147	Encom Equipment					X		
148	MDS INET Equipment	X	X	X	X		X	
Wireless Communication (Short Haul or Line of Sight ONLY)								
149	Wi-Lan Radio Equipment	X	X	X	X	X	X	
Wireless Communication (Short, Mid and Long Range)								
150	Solectek Skyway short, mid and long range wireless microwave equipment	X	X	X	X	X	X	
Wireless Communication (Towers and non-radio Equipment)								
151	Valmont Equipment	X	X	X	X	X	X	
Wireless Digital Communication (Video and Non-Video Data)								
152	Encom Equipment	X	X	X		X		
153	Harris Equipment				X			
154	Varint Equipment						X	
Wireless Mesh Communication Systems								
155	Firetide Equipment	X	X	X	X	X	X	

Appendix B - (Statewide Blanket Proprietary Approval ITEM A-Z)

Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov		Region Approved to Use Proprietary Item						Updated 6-15-09
Item Number	Manufacturers (A-Z)	NWR	OR	SWR	NCR	SCR	ER	Comments
29	ADC Equipment	X	X	X	X	X	X	
35	ADC Equipment	X			X			
146	Alcatel-Lucent Equipment (Microwave Radio)	X	X	X	X	X	X	
2	Alpha Technologies Equipment	X	X	X	X	X	X	
75	American Dynamics	X	X					
144	Andrew Antenna Equipment				X			
4	Argus Technologies Inc., Equipment				X			
142	Astron Wireless Technologies, Inc. Equipment	X	X	X	X	X	X	Note: LOPRO Antennas
137	Axis Communications Equipment	X	X	X	X	X	X	
22	B&B Electronics Equipment	X	X		X	X		
24	B&B Electronics Equipment	X	X	X	X	X		
28	B&B Electronics Equipment	X	X		X	X		
41	B&B Roadway Equipment	X	X	X	X	X	X	
44	B&B Roadway Equipment	X	X	X	X	X	X	
3	Battery Power Systems, Inc., Equipment	X	X	X		X	X	
36	Bejed Equipment			X				
20	Black Box Equipment						X	
23	Black Box Equipment						X	
25	Black Box Equipment						X	
12	Bosch Equipment	X	X	X	X	X	X	
64	Cisco Systems Inc. Equipment	X	X	X	X	X	X	
76	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		
115	Cohu Equipment - (Security Camera Systems)	X	X	X	X	X	X	
93	Communication Specialties Incorporated (CSI) Equipment – (Deci-Mux)	X						
37	Communications Network Systems, Inc. Equipment	X	X	X		X	X	
106	Control Specialists Equipment (TIRTL)	X	X	X	X	X	X	
34	Corning Equipment						X	
100	Daktronics, Inc Equipment	X		X	X	X	X	
102	Daktronics, Inc Equipment	X		X	X	X	X	
104	Daktronics, Inc Equipment	X		X	X	X	X	
59	Diamond Traffic Products Equipment					X		
80	DIGI Equipment	X	X					
47	DIGI Equipment (Connectport VPN)	X	X	X	X	X		
81	Eagle Equipment	X				X	X	
18	Eberle Equipment	X	X	X	X	X	X	
84	Econolite Equipment		X					
91	Edco Equipment	X	X	X	X	X	X	
17	EDI Series Equipment	X	X	X	X	X	X	
108	Electronic Integrated Systems (EIS) RTMS Equipment		X				X	
16	Emerson Network Power Pre-cast Concrete Walk-in Building	X	X	X	X	X	X	Note: Marconi Communications, Inc was bought out by Emerson
141	Encom Equipment	X	X	X	X	X	X	
147	Encom Equipment					X		
152	Encom Equipment	X	X	X		X		
71	EtherWAN Systems Inc. Equipment		X		X	X	X	
89	EtherWAN Systems Inc. Equipment				X	X	X	
10	Everfocus Electronic Corporation Equipment				X			
124	Extreme CCTV Inc. - (Illuminator)	X	X	X	X	X	X	
155	Firetide Equipment	X	X	X	X	X	X	
134	GE Security Equipment	X				X	X	
86	Gen/Tran Equipment	X	X	X	X	X	X	
46	General Device Incorporated(GDI) Equipment	X	X	X	X	X	X	

Appendix B - (Statewide Blanket Proprietary Approval ITEM A-Z)

Item Number	Manufacturers (A-Z)	Region Approved to Use Proprietary Item					ER	Comments
		NWR	OR	SWR	NCR	SCR		
Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov Updated 6-15-09								
54	General Electric Equipment						X	MDS iNET Equipment
60	Glen Martin Engineering Equipment	X	X	X	X	X	X	This tower is used by both SSI and VAISALA for RWIS systems.
32	Global Traffic Technologies Equipment (Note: Previously 3M Opticom Equipment)	X	X	X	X	X	X	
153	Harris Equipment				X			
40	Highway Information Systems, Inc. (HIS) Equipment	X	X	X	X	X	X	
116	Hoffman Equipment - (Commercial Vehicle (CV) Reader Controller Cabinet)	X	X	X	X	X	X	
42	Holophane High-Mast Illumination Lowering Device Systems (LD5 or Current Model)	40	X	X	X	X	X	
31	IndigoVision Equipment				X			
94	IndigoVision Equipment			X				
139	IndigoVision Equipment		X	X	X	X		
51	Infotec Equipment	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS
73	International Fiber Systems (IFS) Inc. Equipment				X	X		
90	International Fiber Systems (IFS) Inc. Equipment		X					
98	International Fiber Systems (IFS) Inc. Equipment		X			X		
112	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
133	International Road Dynamics (IRD) Equipment - (CVOCS)	X	X	X	X	X	X	
132	International Road Dynamics (IRD) Equipment - (CVReader and Confirmation Reader Systems)	X	X	X	X	X	X	
123	International Road Dynamics (IRD) Equipment - (Enforcement Camera System Assembly)	X	X	X	X	X	X	
119	International Road Dynamics (IRD) Equipment - (Load Cell Scale)	X	X	X	X	X	X	
118	International Road Dynamics (IRD) Equipment - (Manual Override Console)	X	X	X	X	X	X	
127	International Road Dynamics (IRD) Equipment - (Outdoor Enclosure and Other Weigh-In-Motion System Components)	X	X	X	X	X	X	
117	International Road Dynamics (IRD) Equipment - (Weigh-In-Motion(WIM) Controller System)	X	X	X	X	X	X	
128	International Road Dynamics (IRD) Equipment - Bending Plate – IRD - International Road Dynamics Corp.	X	X	X	X	X	X	
122	Iqinvision - (Enforcement Camera System)	X	X	X	X	X	X	
110	Iteris Video Detection Equipment.	X	X	X	X	X	X	TDO Systems are managed and operated separately from the remainder of the WSDOT ITS
58	Jamar Technologies Inc. Equipment	X	X	X	X		X	
131	Kistler Instrumente AG Equipment - (Lineas Quartz Sensors)	X	X	X	X	X	X	
135	Kramer Electronics Equipment		X		X			
95	Lamar Video Equipment		X		X	X		
129	Lane Control System – Tassimco Technologies Canada Inc.	X	X	X	X	X	X	
79	Lantronix Equipment				X		X	
65	LUMI TRAK Inc. Equipment	X	X	X	X	X	X	www.lumitrak.com
145	MaxRad Antenna Equipment	X	X	X		X	X	
83	McCain Equipment				X			
143	MDS INET Equipment	X	X	X	X	X	X	
148	MDS INET Equipment	X	X	X	X		X	
30	Mirasys (Dima/Polaris) Equipment	X	X	X		X	X	
39	Morad Antenna Equipment	X	X	X	X	X	X	
19	MOXA Equipment	X	X	X	X	X	X	
27	MOXA Equipment					X		
78	MOXA Equipment			X		X		
55	MRX Platinum-300 Motion Sensor Equipment	X	X	X	X	X	X	
82	Naztec Equipment			X				
5	Newmar Equipment				X			
21	Optelecom Equipment			X				
96	Optelecom Equipment						X	
97	Optelecom Equipment	X		X	X		X	
140	Optelecom Equipment						X	
57	Outback Power Systems Equipment	X	X	X	X	X	X	www.outbackpower.com/
67	Pelco Astro Sign-Brac	X	X	X	X	X	X	
7	Pelco Camera Equipment				X		X	
9	Pelco Camera Equipment			X			X	Note: SWR uses Panasonic Cameras in a Pelco Housing

Appendix B - (Statewide Blanket Proprietary Approval ITEM A-Z)

Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov		Region Approved to Use Proprietary Item						Updated 6-15-09
Item Number	Manufacturers (A-Z)	NWR	OR	SWR	NCR	SCR	ER	Comments
14	Pelco Equipment	X			X	X	X	
136	Pelco Equipment			X				
11	Pelco Equipment	X	X	X	X	X	X	
72	Philips Equipment			X				
120	Piezoelectric Sensors - (Measurement Specialties, Inc.(MSI))	X	X	X	X	X	X	
130	PIPS Technology Equipment - (License Plate Reader (LPR) Cameras)	X	X	X	X	X	X	
45	Pips Technology License Plate Reader (LPR) Equipment	X	X	X	X	X	X	
43	PLC-Multipoint Inc. Equipment	X	X	X	X	X	X	www.plcmultipoint.com/
1	Polara Engineering, Inc. Equipment	X	X	X	X	X	X	
69	Quintim Technologies Equipment	X	X	X	X	X	X	
85	Quixote (NEMA) TMP 390 Equipment		X					
138	Radiant Communications Corporation Equipment	X						
87	Radiant Communications Corporation Equipment	X						
113	Reno A&E Equipment	X	X	X	X	X	X	
26	Ruggedcom Equipment			X				
70	Ruggedcom Equipment	X		X				
77	Ruggedcom Equipment	X	X	X	X	X	X	
88	Ruggedcom Equipment			X				
114	SENSYS Networks	X	X	X	X	X	X	www.sensysnetworks.com
101	SES America Equipment		X					
103	SES America Equipment		X					
105	SES America Equipment		X					
52	Sierra Wireless Equipment	X	X	X	X	X	X	TDC systems are managed and operated separately from the remainder of the WSDOT ITS
53	Sierra Wireless Equipment	X	X	X	X	X	X	Raven and Airlink are products Manufactured by Sierra Wireless
126	Sinclair Technologies Inc. - (Antennas)	X	X	X	X	X	X	
66	Skyline Drum Sign Equipment	X	X	X	X	X	X	
150	Solectek Skyway short, mid and long range wireless microwave equipment	X	X	X	X	X	X	
107	Speed Info Equipment	X	X	X	X	X	X	
61	SSI Roadway Weather Information System Equipment			X		X	X	
63	SSI Roadway Weather Information System Equipment	X	X	N/A	X	N/A	N/A	
68	TAPCO Products and Equipment	X	X	X	X	X	X	
38	Telect Equipment				X			
33	Telect LCX Equipment		X			X		
125	Telematics Wireless USA Corp Equipment - (Automatic Vehicle Identification (AVI) System)	X	X	X	X	X	X	
50	Telenetics Equipment				X	X		
48	Telular Equipment (Data Remote)						X	
111	Traficon Equipment	X	X	X	X	X	X	
92	Transtector Equipment	X	X	X	X	X	X	
121	Trigg Industries Equipment - (Overheight Detectors)	X	X	X	X	X	X	
49	US Robotics Equipment	X	X	X			X	MDS iNET Equipment
62	VAISALA Road and Runway Surface Analyzer (ROSA) Weather Station Equipment	X	X		X			
151	Valmont Equipment	X	X	X	X	X	X	
154	Varint Equipment						X	
13	Vicon Equipment	X	X	X	X	X	X	
15	Vicon Equipment		X	X				
74	Vicon Equipment						X	
56	Wanco Inc. Equipment	X	X	X	X	X	X	www.wanco.com
109	Wavetronix Equipment	X		X	X	X		
99	Wells Sign Equipment	X	X	X	X	X	X	
149	Wi-Lan Radio Equipment	X	X	X	X	X	X	

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

Person Responsible For This Document: [Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov](mailto:baileyte@wsdot.wa.gov) Updated 6-15-09

Number	Categories of Equipment (A-Z)
1	Battery Backup Systems (Small Microwave Sites)
2	Closed Circuit Television Camera (CCTV) Equipment - Pan, Tilt, Zoom (PTZ) Installations
3	Closed Circuit Television Camera (CCTV) Equipment - Fixed Installations
4	Closed Circuit Television Camera (CCTV) Equipment (Attachment Hardware and Power Supply Only - No Camera)
5	Closed Circuit Television Camera (CCTV) Equipment - INFRARED
6	Combiners, RS-422 (General)
7	Combiners, RS-422 (Camera Control Only)
8	Concrete Universal Enclosures (CUE) and Concrete Walk-in Buildings
9	Conflict Monitors (General)
10	Conflict Monitors (For Signals with Flashing Yellow Arrow Operation)
11	Converters (CVISN Applications Only (RS232 to IP, Serial to Ethernet, IP to Fiber))
12	Converters (HUB or Cabinet) - IP to Fiber
13	Converters (HUB or Cabinet) - RS422 to RS232
14	Converters (HUB or Cabinet) - Serial to IP
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 (Tunnel Lighting Control Systems)
25	Illumination (Navigation Systems)
26	License Plate Reader (LPR)
27	Modems - (For use with <i>State Owned</i> Twisted Pair Conductors)
28	Modems - Cellular (General Use)
29	Modems - Dial Up (General Use)
30	Modems - Dial Up (For Transportation Data Office (TDO) Applications)
31	Modems - IP Wireless (For Transportation Data Office (TDO) Applications)
32	Modems - IP Wireless (General Use)
33	Motion Sensor Equipment
34	Portable Surveillance Trailers
35	Power Supply Systems
36	Permanent Traffic Recorders
37	Roadway Weather Information Systems (RWIS) - Tower Structure
38	Roadway Weather Information Systems (RWIS)
39	Roadway Weather Information Systems (RWIS) (Replacement Parts Only; Existing Systems)
40	Router (Ethernet)
41	Sign Lighting Systems
42	Signs (Mechanical)
43	Signs (Mounting Brackets)
44	Signs (with Embedded Flashing Lights)
45	Switch (Voice-over-IP)

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Person Responsible For This Document: Ted Bailey, 360-705-7286, baileyte@wsdot.wa.gov Updated 6-15-09

Number	Categories of Equipment (A-Z)
46	Switch, Video or Data - (Ethernet)
47	Switches, Video or Data - (Analog, Ethernet and Fiber)
48	Synchronous Optical NETwork (SONET) System
49	Terminal Server (Field/Cabinet)
50	Terminal Server (HUB)
51	Traffic Signal Controller Equipment and Software (170, 2070, 2070L(Light) and 2070N(Nema))
52	Traffic Signal Controller Equipment and Software (TMP 390)
53	Traffic Signal Transfer Switch
54	Transceiver (Fiber Optic/Ethernet)
55	Transient Voltage / Surge Suppression Systems (Communication Applications)
56	Transient Voltage / Surge Suppression Systems (Line Applications)
57	Transmission (Video or Data)
58	Transmitters and Receivers (Video and Data)
59	Variable Message Signs (VMS) - CVISN Applications
60	Variable Message Signs (VMS) - Front Access Type
61	Variable Message Signs (VMS) - Walk-In Type
62	Variable Message Signs (VMS) - Variable Speed Limit or Lane Utilization Type
63	Vehicle Detection (Infra-red Light)
64	Vehicle Detection (Microwave (Speeds Only))
65	Vehicle Detection (Microwave (Speeds, Counts and Classification))
66	Vehicle Detection (Video (Transportation Data Office (TDO) Applications))
67	Vehicle Detection (Video)
68	Vehicle Detection (Weigh-in-Motion (Transportation Data Office (TDO) Applications))
69	Vehicle Detectors (Loops)
70	Vehicle Detectors (Magnetometer with Wireless Communications)
71	Weigh-in-Motion(WIM) System - (SubSystem Component Description)
72	Video Distribution Amplifier
73	Video and Data Servers; Video Encoder/Decoder Equipment (Fixed Snap Shot Cameras)
74	Video and Data Servers; Video Encoder/Decoder Equipment (Live Streaming Video Cameras)
75	Wireless Communication (170 Traffic Signal Controller Interconnect)
76	Wireless Communication Antennas (Traffic Signal Controller Interconnect Applications)
77	Wireless Communication (900 Mhz non-line of Sight Ethernet or Non-Video Data)
78	Wireless Communication (Antennas)
79	Wireless Communication (Backbone, Point-to-Point Long Range)
80	Wireless Communication (IP Wireless and 2070 Traffic Signal Controller Interconnect)
81	Wireless Communication (Short Haul or Line of Sight ONLY)
82	Wireless Communication (Short, Mid and Long Range)
83	Wireless Communication (Towers and non-radio Equipment)
84	Wireless Digital Communication (Video and Non-Video Data)
85	Wireless Mesh Communication Systems