

**MEMORANDUM**

**DATE:** June 29, 2015

**TO:** Tom Dingus, Kayla Sykes, Alexandria Marie Noble, Zachary Richard Doerzaph, Pamela Marie Murray-Tuite, Michael Lucas Neurauter

**FROM:** Virginia Tech Institutional Review Board (FWA00000572, expires April 25, 2018)

**PROTOCOL TITLE:** Human Factors Evaluation of an In-Vehicle Active Traffic and Demand Management (ATDM) System

**IRB NUMBER:** 15-655

Effective June 29, 2015, the Virginia Tech Institution Review Board (IRB) Chair, David M Moore, approved the New Application request for the above-mentioned research protocol.

This approval provides permission to begin the human subject activities outlined in the IRB-approved protocol and supporting documents.

Plans to deviate from the approved protocol and/or supporting documents must be submitted to the IRB as an amendment request and approved by the IRB prior to the implementation of any changes, regardless of how minor, except where necessary to eliminate apparent immediate hazards to the subjects. Report within 5 business days to the IRB any injuries or other unanticipated or adverse events involving risks or harms to human research subjects or others.

All investigators (listed above) are required to comply with the researcher requirements outlined at:

<http://www.irb.vt.edu/pages/responsibilities.htm>

(Please review responsibilities before the commencement of your research.)

**PROTOCOL INFORMATION:**

Approved As: **Expedited, under 45 CFR 46.110 category(ies) 4,5,6,7**  
Protocol Approval Date: **June 29, 2015**  
Protocol Expiration Date: **June 28, 2016**  
Continuing Review Due Date\*: **June 14, 2016**

\*Date a Continuing Review application is due to the IRB office if human subject activities covered under this protocol, including data analysis, are to continue beyond the Protocol Expiration Date.

**FEDERALLY FUNDED RESEARCH REQUIREMENTS:**

Per federal regulations, 45 CFR 46.103(f), the IRB is required to compare all federally funded grant proposals/work statements to the IRB protocol(s) which cover the human research activities included in the proposal / work statement before funds are released. Note that this requirement does not apply to Exempt and Interim IRB protocols, or grants for which VT is not the primary awardee.

The table on the following page indicates whether grant proposals are related to this IRB protocol, and which of the listed proposals, if any, have been compared to this IRB protocol, if required.

*Invent the Future*

Date*	OSP Number	Sponsor	Grant Comparison Conducted?
06/29/2015	12096310	US Department of Transportation	Compared on 06/29/2015

\* Date this proposal number was compared, assessed as not requiring comparison, or comparison information was revised.

If this IRB protocol is to cover any other grant proposals, please contact the IRB office (irbadmin@vt.edu) immediately.

**MEMORANDUM**

**DATE:** July 6, 2015

**TO:** Tom Dingus, Kayla Sykes, Alexandria Marie Noble, Zachary Richard Doerzaph, Pamela Marie Murray-Tuite, Michael Lucas Neurauter

**FROM:** Virginia Tech Institutional Review Board (FWA00000572, expires April 25, 2018)

**PROTOCOL TITLE:** Human Factors Evaluation of an In-Vehicle Active Traffic and Demand Management (ATDM) System

**IRB NUMBER:** 15-655

Effective July 6, 2015, the Virginia Tech Institutional Review Board (IRB) Chair, David M Moore, approved the Amendment request for the above-mentioned research protocol.

This approval provides permission to begin the human subject activities outlined in the IRB-approved protocol and supporting documents.

Plans to deviate from the approved protocol and/or supporting documents must be submitted to the IRB as an amendment request and approved by the IRB prior to the implementation of any changes, regardless of how minor, except where necessary to eliminate apparent immediate hazards to the subjects. Report within 5 business days to the IRB any injuries or other unanticipated or adverse events involving risks or harms to human research subjects or others.

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(Please review responsibilities before the commencement of your research.)

**PROTOCOL INFORMATION:**

Approved As: **Expedited, under 45 CFR 46.110 category(ies) 4,5,6,7**  
Protocol Approval Date: **June 29, 2015**  
Protocol Expiration Date: **June 28, 2016**  
Continuing Review Due Date\*: **June 14, 2016**

\*Date a Continuing Review application is due to the IRB office if human subject activities covered under this protocol, including data analysis, are to continue beyond the Protocol Expiration Date.

**FEDERALLY FUNDED RESEARCH REQUIREMENTS:**

Per federal regulations, 45 CFR 46.103(f), the IRB is required to compare all federally funded grant proposals/work statements to the IRB protocol(s) which cover the human research activities included in the proposal / work statement before funds are released. Note that this requirement does not apply to Exempt and Interim IRB protocols, or grants for which VT is not the primary awardee.

The table on the following page indicates whether grant proposals are related to this IRB protocol, and which of the listed proposals, if any, have been compared to this IRB protocol, if required.

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Date*	OSP Number	Sponsor	Grant Comparison Conducted?
06/29/2015	12096310	US Department of Transportation	Compared on 06/29/2015

\* Date this proposal number was compared, assessed as not requiring comparison, or comparison information was revised.

If this IRB protocol is to cover any other grant proposals, please contact the IRB office (irbadmin@vt.edu) immediately.

**MEMORANDUM**

**DATE:** July 9, 2015

**TO:** Tom Dingus, Kayla Sykes, Alexandria Marie Noble, Zachary Richard Doerzaph, Pamela Marie Murray-Tuite, Michael Lucas Neurauter, Haley Anna Baldwin

**FROM:** Virginia Tech Institutional Review Board (FWA00000572, expires April 25, 2018)

**PROTOCOL TITLE:** Human Factors Evaluation of an In-Vehicle Active Traffic and Demand Management (ATDM) System

**IRB NUMBER:** 15-655

Effective July 9, 2015, the Virginia Tech Institutional Review Board (IRB) Chair, David M Moore, approved the Amendment request for the above-mentioned research protocol.

This approval provides permission to begin the human subject activities outlined in the IRB-approved protocol and supporting documents.

Plans to deviate from the approved protocol and/or supporting documents must be submitted to the IRB as an amendment request and approved by the IRB prior to the implementation of any changes, regardless of how minor, except where necessary to eliminate apparent immediate hazards to the subjects. Report within 5 business days to the IRB any injuries or other unanticipated or adverse events involving risks or harms to human research subjects or others.

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(Please review responsibilities before the commencement of your research.)

**PROTOCOL INFORMATION:**

Approved As: **Expedited, under 45 CFR 46.110 category(ies) 4,5,6,7**  
Protocol Approval Date: **June 29, 2015**  
Protocol Expiration Date: **June 28, 2016**  
Continuing Review Due Date\*: **June 14, 2016**

\*Date a Continuing Review application is due to the IRB office if human subject activities covered under this protocol, including data analysis, are to continue beyond the Protocol Expiration Date.

**FEDERALLY FUNDED RESEARCH REQUIREMENTS:**

Per federal regulations, 45 CFR 46.103(f), the IRB is required to compare all federally funded grant proposals/work statements to the IRB protocol(s) which cover the human research activities included in the proposal / work statement before funds are released. Note that this requirement does not apply to Exempt and Interim IRB protocols, or grants for which VT is not the primary awardee.

The table on the following page indicates whether grant proposals are related to this IRB protocol, and which of the listed proposals, if any, have been compared to this IRB protocol, if required.

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Date*	OSP Number	Sponsor	Grant Comparison Conducted?
06/29/2015	12096310	US Department of Transportation	Compared on 06/29/2015

\* Date this proposal number was compared, assessed as not requiring comparison, or comparison information was revised.

If this IRB protocol is to cover any other grant proposals, please contact the IRB office (irbadmin@vt.edu) immediately.

## MEMORANDUM

**DATE:** July 22, 2015

**TO:** Tom Dingus, Kayla Sykes, Alexandria Marie Noble, Zachary Richard Doerzaph, Pamela Marie Murray-Tuite, Michael Lucas Neurauter, Haley Anna Baldwin

**FROM:** Virginia Tech Institutional Review Board (FWA00000572, expires April 25, 2018)

**PROTOCOL TITLE:** Human Factors Evaluation of an In-Vehicle Active Traffic and Demand Management (ATDM) System

**IRB NUMBER:** 15-655

Effective July 22, 2015, the Virginia Tech Institutional Review Board (IRB) Chair, David M Moore, approved the Amendment request for the above-mentioned research protocol.

This approval provides permission to begin the human subject activities outlined in the IRB-approved protocol and supporting documents.

Plans to deviate from the approved protocol and/or supporting documents must be submitted to the IRB as an amendment request and approved by the IRB prior to the implementation of any changes, regardless of how minor, except where necessary to eliminate apparent immediate hazards to the subjects. Report within 5 business days to the IRB any injuries or other unanticipated or adverse events involving risks or harms to human research subjects or others.

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<http://www.irb.vt.edu/pages/responsibilities.htm>

(Please review responsibilities before the commencement of your research.)

## PROTOCOL INFORMATION:

Approved As: **Expedited, under 45 CFR 46.110 category(ies) 4,5,6,7**  
Protocol Approval Date: **June 29, 2015**  
Protocol Expiration Date: **June 28, 2016**  
Continuing Review Due Date\*: **June 14, 2016**

\*Date a Continuing Review application is due to the IRB office if human subject activities covered under this protocol, including data analysis, are to continue beyond the Protocol Expiration Date.

## FEDERALLY FUNDED RESEARCH REQUIREMENTS:

Per federal regulations, 45 CFR 46.103(f), the IRB is required to compare all federally funded grant proposals/work statements to the IRB protocol(s) which cover the human research activities included in the proposal / work statement before funds are released. Note that this requirement does not apply to Exempt and Interim IRB protocols, or grants for which VT is not the primary awardee.

The table on the following page indicates whether grant proposals are related to this IRB protocol, and which of the listed proposals, if any, have been compared to this IRB protocol, if required.

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Date*	OSP Number	Sponsor	Grant Comparison Conducted?
06/29/2015	12096310	US Department of Transportation	Compared on 06/29/2015

\* Date this proposal number was compared, assessed as not requiring comparison, or comparison information was revised.

If this IRB protocol is to cover any other grant proposals, please contact the IRB office (irbadmin@vt.edu) immediately.



## MEMORANDUM

**DATE:** August 4, 2015

**TO:** Tom Dingus, Kayla Sykes, Alexandria Marie Noble, Zachary Richard Doerzaph, Pamela Marie Murray-Tuite, Michael Lucas Neurauter, Haley Anna Baldwin

**FROM:** Virginia Tech Institutional Review Board (FWA00000572, expires July 29, 2020)

**PROTOCOL TITLE:** Human Factors Evaluation of an In-Vehicle Active Traffic and Demand Management (ATDM) System

**IRB NUMBER:** 15-655

Effective August 3, 2015, the Virginia Tech Institution Review Board (IRB) Chair, David M Moore, approved the Amendment request for the above-mentioned research protocol.

This approval provides permission to begin the human subject activities outlined in the IRB-approved protocol and supporting documents.

Plans to deviate from the approved protocol and/or supporting documents must be submitted to the IRB as an amendment request and approved by the IRB prior to the implementation of any changes, regardless of how minor, except where necessary to eliminate apparent immediate hazards to the subjects. Report within 5 business days to the IRB any injuries or other unanticipated or adverse events involving risks or harms to human research subjects or others.

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## PROTOCOL INFORMATION:

Approved As: **Expedited, under 45 CFR 46.110 category(ies) 4,5,6,7**  
Protocol Approval Date: **June 29, 2015**  
Protocol Expiration Date: **June 28, 2016**  
Continuing Review Due Date\*: **June 14, 2016**

\*Date a Continuing Review application is due to the IRB office if human subject activities covered under this protocol, including data analysis, are to continue beyond the Protocol Expiration Date.

## FEDERALLY FUNDED RESEARCH REQUIREMENTS:

Per federal regulations, 45 CFR 46.103(f), the IRB is required to compare all federally funded grant proposals/work statements to the IRB protocol(s) which cover the human research activities included in the proposal / work statement before funds are released. Note that this requirement does not apply to Exempt and Interim IRB protocols, or grants for which VT is not the primary awardee.

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Date*	OSP Number	Sponsor	Grant Comparison Conducted?
06/29/2015	12096310	US Department of Transportation	Compared on 06/29/2015

\* Date this proposal number was compared, assessed as not requiring comparison, or comparison information was revised.

If this IRB protocol is to cover any other grant proposals, please contact the IRB office (irbadmin@vt.edu) immediately.

## MEMORANDUM

**DATE:** August 18, 2015

**TO:** Tom Dingus, Kayla Sykes, Alexandria Marie Noble, Zachary Richard Doerzaph, Pamela Marie Murray-Tuite, Michael Lucas Neurauter, Haley Anna Baldwin

**FROM:** Virginia Tech Institutional Review Board (FWA00000572, expires July 29, 2020)

**PROTOCOL TITLE:** Human Factors Evaluation of an In-Vehicle Active Traffic and Demand Management (ATDM) System

**IRB NUMBER:** 15-655

Effective August 18, 2015, the Virginia Tech Institution Review Board (IRB) Chair, David M Moore, approved the Amendment request for the above-mentioned research protocol.

This approval provides permission to begin the human subject activities outlined in the IRB-approved protocol and supporting documents.

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(Please review responsibilities before the commencement of your research.)

## PROTOCOL INFORMATION:

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Protocol Approval Date: **June 29, 2015**  
Protocol Expiration Date: **June 28, 2016**  
Continuing Review Due Date\*: **June 14, 2016**

\*Date a Continuing Review application is due to the IRB office if human subject activities covered under this protocol, including data analysis, are to continue beyond the Protocol Expiration Date.

## FEDERALLY FUNDED RESEARCH REQUIREMENTS:

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If this IRB protocol is to cover any other grant proposals, please contact the IRB office (irbadmin@vt.edu) immediately.