# Table of Contents

- Table of Contents................................................................. 2  
- Executive Summary............................................................ 3   
- Introduction ........................................................................... 3   
- Goals ..................................................................................... 4   
- Temporary Traffic Planning.................................................. 5   
- General Requirements.......................................................... 8   
- Appendix A (NREL Traffic Safety Points of Contact).............. 16   
- Appendix B (STM Campus Roadway Designation Exhibit)........ 17   
- Appendix C (Typical Application #1 – STM East Loop Road).... 18   
- Appendix D (Typical Application #2 – STM North Loop Road) ... 19   
- Appendix E (Typical Application #3 STM DWP LOW Volume Section).............. 20   
- Appendix F (Typical Application #4 STM Access Roadways)...... 21   
- Appendix G (Typical Application #5 NWTC Roadways).......... 23
Executive Summary
This manual is issued as a supplement to the Manual on Uniform Traffic Control Devices (MUTCD) and is intended for any Subcontractor, Utility Company, Service Provider, and NREL Staff that perform any work within the NREL roadways which includes streets, parking lots or structures, and pedestrian walkways. The document identifies the minimum needs for traffic control measures and devices required at work sites, establishes responsibility for traffic controls, defines the Temporary Traffic Control Plan (TTCP) review and approval process, and provides typical traffic control applications relevant to the National Renewable Energy Laboratory (NREL) campuses. The primary goal of this manual is to increase awareness of the need for proper traffic control in work zones to ensure safe completion of construction and maintenance operations.

Introduction
Construction and maintenance areas have significantly higher than average accident rates and care should be taken in the design and application of traffic control devices and techniques in these areas. Traffic safety needs to be an integral part of all projects that impact the travelled ways of motorized vehicles, pedestrians, and bicycles through construction and/or maintenance activities. NREL has developed this supplemental manual to the MUTCD to aid subcontractors, utility providers, equipment servicing, refilling gas and liquid storage containers, campus events, and any other activity that may interfere with or cause a distraction to normal roadway operations.

A work zone is an area of a roadway with construction, maintenance, or utility-work activities. A work zone is marked by signs, channeling devices, barriers, pavement markings, and/or work vehicles. It extends from the first warning sign or flashing lights on a vehicle to the "End of Road Work" sign or the last traffic control device. A work zone may be for short or long durations and may include stationary or moving activities.

The MUTCD defines the standards used by road managers nationwide to install and maintain traffic control devices on all public streets, highways, bikeways, and private roads open to public travel. The MUTCD is published by the Federal Highway Administration (FHWA) under 23 Code of Federal Regulations (CFR), Part 655, Subpart F.
This supplement is not intended to replace this publication, only to provide standard practices for specific conditions on the NREL Campuses. Any TTCP prepared for the NREL campuses should conform to or be of higher standards than the methods outlined in these publications.

NREL has appointed a Traffic Safety Authority Having Jurisdiction (AHJ) who is responsible for interpreting codes, regulations, and standards, and approving equipment, installations, and/or procedures used at NREL, that pertain to traffic safety including all travelled ways for motor vehicles, bicycles, and pedestrians as well as parking lots/facilities.

**Goals**
Safety for road users including motorists, motorcyclists, bicyclists, pedestrians, and workers is the primary goal of the TTCP at NREL. To support this goal, a TTCP needs to provide for the reasonably safe and effective movements of vehicles, bicyclists, and pedestrians through a work zone while reasonably protecting the road users, workers, emergency responders, equipment, and property. Traffic control devices are markers, signs and signal devices used to inform, guide and control traffic, including pedestrians, motor vehicle drivers and bicyclists. Unusual, unrecognized, or unclear traffic control devices can have potentially negative effects on the road user’s ability to navigate the work zone in a safe and efficient manner.

**MUTCD Section 6A.01 General**

**Standard:**
The needs and control of all road users (motorists, bicyclists, and pedestrians within the highway, or on private roads open to public travel, including persons with disabilities in accordance with the Americans with Disabilities Act of 1990 (ADA), Title II, Paragraph 35.130), through a TTC zone shall be an essential part of highway construction, utility work, maintenance operations, and the management of traffic incidents.

Consistency in device appearance and use throughout the NREL campuses will enhance driver understanding of the device meaning and intent and will result in a safer and more effective traffic control mechanism. With this goal in mind, all traffic control devices must meet or exceed the standards in the latest edition of the MUTCD or as provided in this manual where such is more restrictive.

Maintenance of traffic control devices is extremely important for continued effectiveness of the device and its ability to convey its meaning and intent. All traffic control devices installed by any Subcontractor, Utility Company, Service Provider, and NREL Staff shall be regularly inspected and maintained throughout the duration of the work activity to ensure that all required traffic control devices are in their proper places, are functioning as intended, and that all sign faces are clean, legible, and have proper reflectivity. Maintenance includes cleaning or replacing dirty, missing, damaged devices, or obliterated pavement markings. Any device determined to be in an unacceptable condition by the NREL Traffic Safety AHJ or authorized designee shall be promptly removed and replaced.
NREL recognizes that for some short duration activities within the roadway zone it may not be practical to prepare a project specific TTCP. Traffic safety requirements are provided in the General Requirements section of this manual for these activities. Additionally, for short-term stationary projects on low volume roadways NREL has developed Typical Applications for use as a TTCP. The Typical Application plans can be used for short-term stationary activities in lieu of a project specific TTCP when authorized by the NREL Traffic Safety AHJ or authorized designee.

**Temporary Traffic Control Planning**

For all activities affecting the travelled ways for vehicles, bicycles, and pedestrians at NREL, there are several important elements that must be considered and included into the Temporary Traffic Control (TTC) planning such as:

- Activity Duration
- TTC Devices
- Activity Location
- Personal Protective Equipment (PPE)
- Personnel Training

**Activity Duration**

Activity Duration is a critical element in determining the TTC requirements and safety procedures as it affects the types of TTC measures that are appropriate for the proposed work activity. The following work durations are used to help define the minimum TTC requirements for work performed at NREL within any travelled way.

**Mobile** – operations that are typically less than 30 minutes in any specific location and are routine types of activities that occur within the NREL campus. These activities do NOT require a project specific TTCP to be submitted but do require proper equipment and trained personnel. All work must be completed during daylight hours. The requirements for specific activities are provided later in this section. Typical types of activities include:

- Laboratory Protection Activities and Responses
- Snow Clearing and Plowing (NREL and Subcontractor)
- Shuttle Services (Subcontractor)
- Minor maintenance activities not requiring heavy equipment (NREL and Subcontractor)
- Landscape repairs, weed control, mowing, utility inspections (NREL and Subcontractor)
- Signage and Striping (NREL and Subcontractor)
- NREL Shipping/Receiving deliveries and pickups
- NREL Mailroom deliveries and pickups
- ESH&Q responses and hazardous waste pickups

**Short Duration** – operations that are typically less than 60 minutes in a specific location and are routine types of activities that occur within the NREL campus and affect a fixed location for a slightly longer period than a mobile operation. These activities typically do NOT require a project specific TTCP to be submitted but do require proper equipment and trained personnel.
All work must be completed during daylight hours. The requirements for specific activities are provided later in this section. Typical types of activities include:

- Laboratory Protection needs and responses
- NREL Shipping/Receiving deliveries and pickups
- NREL Mailroom deliveries and pickups
- NREL Property Management deliveries and pickups
- ESH&Q responses and hazardous waste pickups
- Commercial deliveries and pickups
- Maintenance work (NREL and Subcontractor)
- Construction work (Subcontractor or Utility Provider)

**Short-term Stationary**—operations that are typically longer than one (1) hour in a specific location but are completed within the same day. These are typically maintenance and construction activities that occur within the NREL campuses as well as campus events. These activities **do require a project specific TTCP** to be submitted to and approved by the NREL Traffic Safety AHJ prior to commencing any work within the travelled way. The project specific TTCP requirement may be met through use of an NREL approved Typical Application plan where applicable to the project condition and approved the Traffic Safety AHJ or authorized designee. All work must be completed during daylight hours. Typical types of activities include:

- Maintenance work (NREL and Subcontractor)
- Construction work (Subcontractor and Utility Provider)
- NREL campus events (NREL staff, visitors, and vendors)

**Intermediate-term Stationary**—operations that are typically longer than one (1) day in a specific location but are completed within three (3) days. These are typically maintenance and construction activities that occur within the NREL campus. These activities **do require a project specific TTCP** to be submitted to and approved by the NREL Traffic Safety AHJ prior to commencing any work within the travelled way. Considerations for leaving TTC measures in place during nighttime conditions must be included in the TTC, however, nighttime work (during hours of darkness between sunset and sunrise) is prohibited unless specifically authorized by the NREL Traffic Safety AHJ or authorized designee. Typical types of activities include:

- Maintenance work (NREL and Subcontractor)
- Construction work (Subcontractor and Utility Provider)

**Long-term Stationary**—operations that are typically longer than three (3) days in a specific location. These are typically maintenance and construction activities that occur within the NREL campus. These activities **do require a project specific TTCP** to be submitted to and approved by the NREL Traffic Safety AHJ prior to commencing any work within the travelled way. Considerations for leaving TTC measures in place during nighttime conditions must be included in the TTC, however, nighttime work (during hours of darkness between sunset and
sunrise) is prohibited unless specifically authorized by the NREL Traffic Safety AHJ or authorized designee. In addition, the use of more durable and longer term TTC devices and signage is required. Typical types of activities include:

- Maintenance work (NREL and Subcontractor)
- Construction work (Subcontractor and Utility Provider)

**TTC Devices**

All TTC devices used at NREL must comply with all minimum requirements of the 2009 Edition of the MUTCD and NCHRP 350 criteria. NREL may require enhanced TTC devices where determined appropriate by the Traffic Safety AHJ or authorized designee. The following are minimum requirements for common types of TTC devices:

1. Cones
   a. Cones used for Mobile, Short Duration, and Short-term Stationary activities must be orange and a minimum of 18 inches high. A 4-inch retro-reflective band is encouraged but not required.
   b. Cones used for Intermediate-term Stationary and Long-term Stationary activities must be orange and a minimum of 28 inches high and contain one 4-inch and one 6-inch retro-reflective band

2. Flagger Stop/Slow Paddle must be a minimum of 24 inch x 24 inch with a 72-inch high handle and must have a reflective finish with engineer grade material.

3. Safety Vests – A minimum ANSI class 2 safety vest is required for all work within the NREL roadways. Attendees at campus events in designated event zones are exempt from this requirement.

4. Sidewalk Barricade/Detour – all sidewalk barricades used to channelize pedestrians must be detectable to users of long canes and visible to persons having low vision. A continuous detectable bottom edge is required on all barricades at location where pedestrian traffic is re-routed.

5. Advance Warning Sign – for all Short-term Stationary, Intermediate-term Stationary, and Long-term Stationary activities, an advance warning sign must be installed 100‘ ahead of the beginning of the work zone in both directions or as approved by the NREL Traffic Safety AHJ or authorized designee. The sign must be a W20-1 sign 36” x 36” and labelled “ROAD WORK AHEAD”.

**Activity Location**

Activity location is an important consideration on the NREL campuses due to a variety of roadway traffic volumes on the NREL campuses. Main roadways with higher traffic volumes will have more stringent requirements for TTC measures than lower volume roadways. All roadways on the NREL South Table Mountain (STM) campus have speed limits of 20 MPH or less and are considered low speed roadways. The roadways on the Flatirons campus have a speed limit of 15 or 35 MPH. All roadways on the NREL campus that are considered HIGH
Volume roadways will require a TTCP for any work activity except as specifically allowed hereunder for permissible Mobile and Short Duration Operations.

Appendix A depicts the STM campus roadways which are LOW and HIGH volume as determined by the NREL Traffic Safety AHJ.

All roadways on the Flatirons campus are considered low volume roadways, however, any work performed between the Security entrance and Highway 128 will require a TTCP except for permissible Mobile Operations.

**Personal Protective Equipment (PPE)**
All workers engaged in any Mobile, Short Duration, Short-term Stationary, Intermediate Stationary, or Long-term stationary activities described in this manual must wear all Personal Protective Equipment required in the SWP Safe Work Permit and Activity Hazard Analysis or Temporary Traffic Control Plan. At a minimum, all personnel engaging in activities requiring any form of Temporary Traffic Control must wear an ANSI class 2 safety vest except for participants in approved NREL campus events.

**Personnel Training**
All workers engaged in any Mobile, Short Duration, Short-term Stationary, Intermediate Stationary, or Long-term stationary activities described in this manual must be able to demonstrate that they have received appropriate training for the performance of their duties within an activity zone impacting NREL travelled ways.

**General Requirements**
All work in travelled ways at NREL that impact any motorist, bicyclist, or pedestrian will require that a TTCP be prepared, reviewed, and approved by the NREL Traffic Safety AHJ or authorized designee unless specifically exempted below. All plans shall meet the minimum requirements of the 2009 edition of the MUTCD and the requirements listed below.

1. **Laboratory Protection Activities and Responses** shall be considered a Mobile or Short Duration Operation which does not require a project specific TTCP. However, these operations are required to comply with the following minimum safety procedures and equipment:
   a. For emergency responses, personnel should engage emergency lights at scene and deploy appropriate traffic safety measures such as cones, flares, etc. in accordance with their training. In addition, Emergency Responders should notify the NREL Traffic Safety AHJ or authorized designees to assist with additional traffic control measures as needed.
   b. For non-emergency activities and responses requiring a vehicle to be parked in the roadway for less than thirty (30) minutes, emergency response and security personnel shall engage the vehicle emergency flashers.
3. **Snow clearing and plowing operations** on any campus travelled way shall be considered a Mobile Operation which does not require a project specific TTCP. However, these operations are required to comply with the following minimum safety procedures and equipment:
   a. Pickup Truck and UTV mounted Snowplow Units must be equipped with the following safety equipment at a minimum:
      i. Enclosed cab
      ii. 3-point belt restraint preferred; lap belt required at a minimum
      iii. Lighting package including head lights, taillights, and brake lights
      iv. Side and rear-view mirrors
v. Horn
vi. Reverse lights and back up alarm
vii. Roof mounted yellow beacon light
viii. Exceptions to above must be approved by Traffic Safety AHJ or authorized designee

b. Heavy Equipment (Skid Steer, Forklift, Telehandler, etc.) must be equipped with the following safety equipment at a minimum:
i. Operator restraint
ii. Roof mounted yellow beacon light
iii. Horn
iv. Backup alarm
v. Rear mounted Slow Moving Vehicle triangle sign
vi. Must have adequate 360-degree vision for operator to see all directions or must be accompanied by a spotter
vii. Exceptions to above must be approved by Traffic Safety AHJ or authorized designee

4. **NREL Shipping/Receiving, Mailroom, and Property Management Activities** shall be considered a Mobile or Short Duration Operation which does not require a project specific TTCP. This includes commercial delivery and transport vehicles authorized by NREL Shipping/Receiving to deliver directly to a facility or to refill gases and liquids in approved storage containers. However, these operations are required to comply with the following minimum safety procedures and equipment:

a. **LOW Volume Roadways**
   i. For activities requiring an authorized vehicle to be parked in the roadway for less than thirty (30) minutes, users shall engage the vehicle emergency flashers.
   ii. For activities requiring an authorized vehicle to be parked in the roadway for longer than thirty (30) minutes, additional safety measures as follows are required:
      1. Personnel shall engage the vehicle emergency flashers and set a minimum of three orange cones in the roadway. One cone adjacent to the front and rear ends of the vehicle adjacent to the roadway and one cone in the middle of the blocked traffic lane approximately 20 feet behind the vehicle. Cones to be as described in this manual.

b. **HIGH Volume Roadways**
   i. Follow procedures listed for **Short Duration Activities (less than 1 hour)** on a **HIGH-VOLUME ROADWAY** below.

5. **Minor maintenance operations** such as mowing, weed control, minor landscaping, erosion control operations, minor cleanup, etc. where the work is predominantly outside of campus travelled ways but where the maintenance vehicle needs to travel within or cross the travelled roadways for short periods of time shall be considered a
Mobile Operation which does not require a project specific TTCP. All work must be performed during daylight hours unless approved by Traffic Safety AHJ or authorized designee. However, these operations are required to comply with the following minimum safety procedures and equipment:

a. Pickup Truck and UTV Units must be equipped with the following safety equipment at a minimum:
   i. Enclosed cab or Roll Over Protection Structure (ROPS)
   ii. 3-point belt restraint preferred; lap belt required at a minimum
   iii. Lighting package including head lights, taillights, and brake lights
   iv. Side and rear-view mirrors preferred; rear-view mirror required at a minimum
   v. Horn
   vi. Reverse lights or back up alarm
   vii. Roof mounted yellow beacon light
   viii. Exceptions to above must be approved by Traffic Safety AHJ or authorized designee

b. ATV Units must be equipped with the following safety equipment at a minimum:
   i. Standard safety equipment supplied with vehicle must be in operable condition
   ii. Rear mounted Slow Moving Vehicle triangle sign
   iii. Exceptions to above must be approved by Traffic Safety AHJ or authorized designee

c. Mowers and other Specialty Lightweight Equipment
   i. Standard safety equipment supplied with vehicle must be in operable condition
   ii. Rear mounted Slow Moving Vehicle triangle sign
   iii. Exceptions to above must be approved by Traffic Safety AHJ or authorized designee

d. Heavy Equipment (Skid Steer, Forklift, Telehandler, etc.) must be equipped with the following safety equipment at a minimum:
   i. Operator restraint
   ii. Roof mounted yellow beacon light
   iii. Horn
   iv. Backup alarm
   v. Rear mounted Slow Moving Vehicle triangle sign
   vi. Must have adequate 360-degree vision for operator to see all directions or must be accompanied by a spotter
   vii. Exceptions to above must be approved by Traffic Safety AHJ or authorized designee

6. Shuttle Services shall be considered a Mobile Operation which does not require a project specific TTCP. However, these operations are required to comply with the following minimum safety procedures and equipment:
a. Shuttles stopping in the roadway as part of routine pickup and drop-off activities at a designated shuttle stop, are not required to engage the vehicle emergency flashers but should pull the vehicle as far to the right edge of the traffic as practical.

b. Shuttles stopping in the roadway and performing any activity that requires the driver to leave the vehicle in a non-designated parking spot or when using the wheelchair lift, must engage the vehicle emergency flashers and pull the vehicle as far to the right edge of the traffic as practical.

c. On HIGH volume roadways, shuttles are not allowed to park/wait and are only allowed to stop for a pickup/drop-off at designated shuttle locations. The only exception is that shuttles are allowed to park/wait up to thirty (30) minutes at the vehicle turnaround in front of the RSF main entrance.

7. Roadway and parking lot striping and signage is considered a mobile operation but does require a project specific TTCP to be reviewed and approved by the NREL Traffic Safety AHJ or authorized designee prior to commencing work activities. All contractors performing signage and striping work are encouraged to perform the work outside of normal NREL working hours.

8. All work within the STM Parking Garage does require a project specific TTCP to be reviewed and approved by the NREL Traffic Safety AHJ or authorized designee prior to commencing any work or TTC setup operations.

9. Campus events involving large gatherings of people or activities that may impact motorized or pedestrian traffic and parking facilities do require a project specific TTCP to be reviewed and approved by the NREL Traffic Safety AHJ or authorized designee.
   a. Attendees of campus events are not required to wear PPE unless performing activities that create a potential safety concern such as directing traffic.

10. Short Duration Activities (less than 1 hour) on a LOW VOLUME ROADWAY do not require a project specific TTCP to be reviewed and approved but are required to comply with the following:
   a. All vehicles parked in the roadway for up to one (1) hour, the user shall engage the vehicle emergency flashers and set a minimum of three orange cones in the roadway. One cone adjacent to the front and rear ends of the vehicle (including trailer) adjacent to the roadway and one cone in the middle of the blocked traffic lane approximately 20 feet behind the vehicle. Cones to be as described in this manual.
   b. All persons working in the roadway must wear appropriate PPE including an ANSI class 2 safety vest.
   c. Types of activities considered short duration include:
      v. Commercial deliveries and pickups
      vi. Minor maintenance activities by NREL staff, Subcontractors, and Utility Providers
vii. Minor construction activities by NREL staff, Subcontractors, and Utility Providers

11. **Short Duration Activities (less than 1 hour)** on a HIGH-VOLUME ROADWAY do not require a project specific TTCP to be reviewed and approved, but are required to comply with the following:
   a. All vehicles parked in the roadway for up to one (1) hour, the user shall engage the vehicle emergency flashers
   b. A minimum of eight orange cones shall be set in the roadway. One cone adjacent to the front, middle, and rear ends of the vehicle (including trailer) adjacent to the roadway and five additional cones uniformly spaced in a straight-line taper from the rear end of the vehicle to the adjacent concrete curb or edge of roadway over a length of 50’. Cones to be as described in this manual.
   c. A “ROAD WORK AHEAD” advance warning sign shall be placed 100’ in advance of the first cone in both directions or at a lesser distance when approved by the NREL Traffic Safety AHJ or authorized designee. Signs to be as described in this manual.
   d. Two flaggers with appropriate flagging equipment are required.
   e. All persons working in the roadway must wear appropriate PPE including a class 2 safety vest.
   f. Types of activities considered short duration include:
      viii. Minor maintenance activities by NREL staff, Subcontractors, and Utility Providers
      ix. Minor construction activities by NREL staff, Subcontractors, and Utility Providers

12. **Short-term Stationary Activities (longer than 1 hour and less than 1 day)** on a LOW VOLUME ROADWAY do require a project specific TTCP to be submitted to and approved by the NREL Traffic Safety AHJ prior to commencing any work within the travelled way. The project specific TTCP requirement may be met through use of an NREL approved Typical Application plan where applicable to the project condition and approved the Traffic Safety AHJ or authorized designee. All work must be completed during daylight hours. In addition:
   a. All vehicles parked in the roadway shall engage the vehicle emergency flashers or a roof mounted yellow beacon light.
   b. All persons working in the roadway must wear appropriate PPE including a class 2 safety vest.
   c. Types of activities considered short-term stationary on LOW volume roadways includes:
      x. Short-term maintenance activities by NREL staff, Subcontractors, and Utility Providers
      xi. Short-term construction activities by NREL staff, Subcontractors, and Utility Providers
13. **Short-term Stationary Activities (longer than 1 hour and less than 1 day)** on a **HIGH VOLUME ROADWAY** do require a project specific TTCP to be reviewed and approved by the NREL Traffic Safety AHJ prior to commencing any work or TTC setup operations.

14. **Intermediate-term Stationary Activities (longer than 1 day and less than 3 days)** on a **ANY ROADWAY** do require a project specific TTCP to be reviewed and approved by the NREL Traffic Safety AHJ prior to commencing any work or TTC setup operations.

15. **Long-term Stationary Activities (longer than 3 days)** on a **ANY ROADWAY** do require a project specific TTCP to be reviewed and approved by the NREL Traffic Safety AHJ prior to commencing any work or TTC setup operations.

16. All TTCP’s must be submitted to NREL Traffic Safety AHJ or authorized designee a minimum of three (3) working days prior to commencing installation of TTC devices and signage except as noted below:

   a. Any activity that requires a full closure of a roadway or sidewalk will require a TTCP to be reviewed and approved by the Traffic Safety AHJ. Such TTCP involving a full closure of any street or sidewalk shall be submitted a minimum of five (5) working days prior to commencing installation of TTC devices to allow NREL adequate time to issue site wide notifications and to evaluate alternate access routes.

17. A copy of the approved TTCP must be available at the activity site for inspection by Traffic Safety AHJ or authorized designees. Any changes must be authorized by the Traffic Safety AHJ or authorized designee.

18. Flagging personnel must be properly trained, have proper equipment, and be dressed appropriately.

19. In the event of an emergency, notify all emergency responders first, then notify the Traffic Safety AHJ.

20. All temporary traffic control devices shall be immediately removed when the work is completed, and the devices are no longer needed.

21. Subcontractors and Utility Providers shall cooperate with NREL to ensure that shuttles and delivery vehicle services are not interrupted during NREL normal working hours unless a full road closure is authorized as part of an approved TTCP.

22. The Traffic Safety AHJ and authorized designees may increase the listed safety requirements for work on any roadway where site conditions warrant a higher level of safety consideration up to and including preparation of a TTCP.

23. **Parking**

   a. Parking is not allowed on the STM campus except in designated parking spots. Roadways, open space, emergency access lanes, etc. are not to be used for parking unless specifically authorized as part of an approved TTCP by the Traffic Safety AHJ or authorized designee.
b. Subcontractor parking is only allowed in spaces near the facilities marked as “Construction Contractor Parking” or “Service Contractor Parking”. These spots are intended for one primary work vehicle from a Subcontractor that has the tools and equipment needed by the Subcontractor’s forces. All other vehicles must be parked in the STM parking garage, the south surface parking lot, or other location approved by Traffic Safety AHJ or authorized designee.

c. Facility dock use

i. Subcontractors and NREL staff may only park in the dock area on an “as needed” basis for unloading/loading equipment into a facility and the vehicle must be immediately moved after the loading/unloading operation is completed. A 60-minute maximum timeframe is allowed unless otherwise approved by the Traffic Safety AHJ or authorized designee.

ii. NREL Shipping/Receiving, Mailroom, and Property Management vehicles and staff may utilize the dock areas on an “as needed” basis for loading/unloading and other approved activities. There is no time limit for use of the dock area by shipping/receiving, mailroom, or property management staff, however, vehicles should be moved immediately upon completion of approved activities.

1. Exceptions include vehicles designated to shipping and receiving which utilize loading docks as their parking spot.

iii. Commercial delivery and transport vehicles authorized by NREL Shipping/Receiving staff may utilize the dock areas on an “as needed” basis for loading/unloading, refilling gas/liquid storage containers, and other approved activities. There is no time limit for use of the dock area by commercial delivery and transport vehicles when performing activities authorized by shipping/receiving staff, however, vehicles should be moved immediately upon completion of approved activities.

iv. Other uses may be allowed upon approval by NREL Traffic Safety AHJ or authorized designee.
Appendix A

NREL Traffic Safety Points of Contact

NREL Traffic Safety Authority Having Jurisdiction (AHJ):
Bret Cummock
Research Support Facility, A243
Office: (303) 275-4354
Cell: (303) 330-1426

NREL Traffic Safety AHJ Authorized Designee:
Patty Goodman-Holdridge
Research Support Facility, A-249 2
Office: (303) 384-7338
Cell: (303) 905-8063

NREL Traffic Safety AHJ Authorized Designee:
Brent Smith
Research Support Facility, A-249 3

NREL Traffic Safety AHJ Authorized Designee:
John Boysen
Research Support Facility, A-236 10
Office: (303) 275-3235
Cell: (720) 641-1107