

Public Transportation Agency Safety Plan

# Guilford County Transportation and Mobility Services





November 15, 2020

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## Section 1. Transit Agency Information

### General Information

Guilford County Transportation and Mobility Services

Accountable Executive: Heather Skeens

Chief Safety Officer: Irma Zimmerman

### Address/Phone/Web

1203 Maple St. Greensboro, NC 27405

336-641-2561

<https://www.guilfordcountync.gov/iur-county/human-services/transportation>

Modes of Service: Demand Response

FTA Funding Sources: FTA Section 5307, 5311, 5310

### Modes of Service Directly Provided:

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Bus (MB)                        | <input type="checkbox"/> Bus Rapid Transit (RB) | <input type="checkbox"/> Publico (PB)    |
| <input checked="" type="checkbox"/> Demand Response (DR) | <input type="checkbox"/> Commuter Bus (CB)      | <input type="checkbox"/> Trolleybus (TB) |
| <input type="checkbox"/> Demand Response Taxi (DT)       | <input type="checkbox"/> Jitney (JT)            | <input type="checkbox"/> Vanpool (VP)    |

☒ Guilford County Transportation and Mobility Services does not provide transit services on behalf of another transit agency or entity.

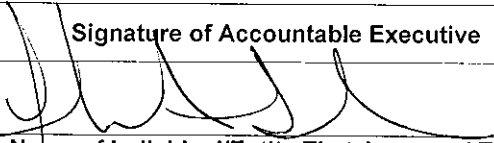
☐ Guilford County Transportation and Mobility Services provides the below transit modes on behalf of the following transit agency(s) or entity(s).

Transit Agency: \_\_\_\_\_

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Bus (MB)                  | <input type="checkbox"/> Bus Rapid Transit (RB) | <input type="checkbox"/> Publico (PB)    |
| <input type="checkbox"/> Demand Response (DR)      | <input type="checkbox"/> Commuter Bus (CB)      | <input type="checkbox"/> Trolleybus (TB) |
| <input type="checkbox"/> Demand Response Taxi (DT) | <input type="checkbox"/> Jitney (JT)            | <input type="checkbox"/> Vanpool (VP)    |

The Guilford County Transportation and Mobility Services Safety Plan addresses all applicable requirements and standards as set forth in FTA's Public Transportation Safety Program and the National Public Transportation Safety Plan.

## Section 2. Plan Development, Approval, and Updates

<b>Name of Entity That Drafted This Plan</b>	Guilford County Transportation and Mobility Services		
<b>Signature by the Accountable Executive</b>	<b>Signature of Accountable Executive</b>	<b>Date of Signature</b>	
		10-1-20	
<b>Approval by the Board of Directors or an Equivalent Authority</b>	<b>Name of Individual/Entity That Approved This Plan</b>	<b>Date of Approval</b>	
	<b>Relevant Documentation (title and location)</b>		
<b>Certification of Compliance</b>	<b>Name of Individual/Entity That Certified This Plan</b>	<b>Date of Certification</b>	
	<b>Relevant Documentation (title and location)</b>		
<b>Version Number and Updates</b>			
<i>Record the complete history of successive versions of this plan.</i>			
<b>Version Number</b>	<b>Section/Pages Affected</b>	<b>Reason for Change</b>	<b>Date Issued</b>
1	N/A	N/A	
<b>Annual Review and Update of the Public Transportation Agency Safety Plan</b>			

Public Transportation Agency Safety Plan will be reviewed by Transportation Supervisor/ Safety Officer. If changes need to be or not, signatures are required annually by the Guilford County Board of Commissioners or Accountable Executive, Heather Skeens. Timeline for getting prepared to submit to the AE/BOC for annual signatures will begin in May of the FY, the CSO will conduct a review of the PTASP to be prepared to submit for yearly signatures in June of FY. The yearly board meeting ending in PTASP will be presented to the board for approval and signature regardless of update or not.

Plan updates will include changes needed to the current AE or SO is no longer in place. If any Federal and State guidelines have changed within the plan. The process that will occur to present to the AE and BOC for annual approval: Placed on agenda for approval with updated documents to be considered for change and to get the signature of approval by the BOC.

### Section 3. Safety Performance Targets

#### Safety Performance Targets

*Specify performance targets based on the safety performance measures established under the National Public Transportation Safety Plan.*

Mode of Transit Service	Fatalities	Fatalities (per 100k VRM)	Injuries	Injuries (per 100k VRM)	Safety Events	Safety Events (per 100k VRM)	System Reliability
Demand Response	0	0	0	0	2	2.0	80,000

#### Performance Measures:

- ◆ SAFETY PERFORMANCE MEASURE: FATALITIES (total number of reportable fatalities and rate per total vehicle revenue miles by mode)
  - Customers, employees and the public
    - 0 – Demand Response
    - Per 100k VRM
- ◆ SAFETY PERFORMANCE MEASURE: INJURIES (total number of reportable injuries and rate per total vehicle revenue miles by mode)
  - Customers, employees and the public
    - 1– Demand Response
    - 0.1 Per 100K VRM by Demand Response
- ◆ SAFETY PERFORMANCE MEASURE: SAFETY EVENTS (total number of reportable events and rate per total vehicle revenue miles by mode)
  - Combined above with reportable incidents for customers, employees and the public
    - 1 – Demand Response
    - 0.1 –Per 100K VRM by Demand Response
    - DEFINE – Safety incident vs. other incidents

**Safety Incident** means an event that occurs or is observed during the provision of the Services which causes, or may cause, an adverse impact on the health, **safety** and welfare of any Customer; **Safety Incident** means an **incident** involving a risk to the

**safety** of the public; **Incidents**, on the other hand, are. unexpected event that may result in property damage but does not result in an injury or illness. **Incidents** are also called, "near misses," or "near hits."

- ◆ SAFETY PERFORMANCE MEASURE: SYSTEM RELIABILITY (mean distance between major mechanical failures by mode)
  - Relationship with TAM Plan – State of Good Repair (SGR) by mode
    - 1 – Demand Response
 

*DEFINE – Major mechanical failure*

A failure of some mechanical element of the revenue vehicle that prevents the vehicle from completing a scheduled revenue trip or from starting the next scheduled revenue trip because actual movement is limited or because of safety concerns.

      - Towed from service
      - Greater than \$500 of repairs
      - Greater than 1 day out of service

Safety Performance Target Coordination		
<i>Describe the coordination with the State and Metropolitan Planning Organization(s) (MPO) in the selection of State and MPO safety performance targets.</i>		
Guilford County Transportation and Mobility Services shares safety performance targets with MPO City of Greensboro and City of High Point annually as part of our continued coordination of transit data. This data also includes Transit Asset Management Plan updates and anticipated capital replacement schedules.		
Targets Transmitted to the State	State Entity Name	Date Targets Transmitted
	North Carolina Department of Transportation-IMD	11/15/2020
Targets Transmitted to the Metropolitan Planning Organization(s)	Metropolitan Planning Organization Name	Date Targets Transmitted
	City of Greensboro, MPO	11/15/2020
	City of High Point, MPO	11/15/2020



## Section 4. Safety Management Policy

### Safety Management Policy Statement

Guilford County Transportation and Mobility Services strives to provide safe, reliable, comfortable, and innovative transportation options to every member of the community. The Public Transportation Agency Safety Plan (PTASP) has been developed to integrate safety into all Guilford County Transportation and Mobility Services system operations. By using the procedures contained in the PTASP, Guilford County Transportation and Mobility Services can continue to improve the safety and security of Guilford County Transportation and Mobility Services operation and services.

This PTASP describes the policies, procedures, and requirements to be followed by management, maintenance, and operations personnel to provide a safe environment for Guilford County Transportation and Mobility Services employees, customers, and the general public. The goal of this program is to eliminate the human and fiscal cost of avoidable personal injury and vehicle accidents.

Each department has a responsibility under the PTASP. The Director and supervisors shall provide the continuing support necessary to achieve the PTASP objectives. A key to the success of this effort is for employees to be aware that they are accountable for safely performing the requirements of their position. The success of the program also depends on all employees actively identifying potential hazards and making a commitment to the safety of others.

Guilford County Transportation and Mobility Services must be aware that decisions and actions often affect the safety of those in other operations. By following the processes described in the PTASP, Guilford County Transportation and Mobility Services will continue to improve performance and the safety of the system while creating a culture of safety.

Guilford County Transportation and Mobility Services commitment is to:

- **Support** the management of safety through the provision of appropriate resources that will result in an organizational culture that fosters safe practices, encourages effective employee safety reporting and communication, and actively manages safety with the same attention to results as the attention to the results of the other management systems of the organization;
- **Integrate** the management of safety among the primary responsibilities of all managers and employees;
- **Clearly define** for all staff, managers, and employees alike, their accountabilities and responsibilities for the delivery of the organization's safety performance and the performance of Guilford County Transportation and Mobility Services safety management system;

- **Establish and operate** hazard identification and analysis, and safety risk evaluation activities—including an employee safety reporting program as a fundamental source for safety concerns and hazard identification—to eliminate or mitigate the safety risks of the consequences of hazards resulting from Guilford County Transportation and Mobility Services operations or activities to a point which is consistent with an acceptable level of safety performance;
- **Ensure** that no action will be taken against any employee who discloses a safety concern through the employee safety reporting program, unless disclosure indicates, beyond any reasonable doubt, an illegal act, gross negligence, or a deliberate or willful disregard of regulations or procedures;
- **Comply** with, and wherever possible exceed, legislative and regulatory requirements and standards;
- **Ensure** that sufficient skilled and trained human resources are available to implement safety management processes;
- **Ensure** that all staff are provided with adequate and appropriate safety-related information and training, are competent in safety management matters, and are allocated only tasks commensurate with their skills;
- **Establish and measure** safety performance against realistic and data-driven safety performance indicators and safety performance targets;
- **Continually improve** safety performance through management processes that ensure that appropriate safety management action is taken and is effective; and
- **Ensure** externally supplied systems and services to support operations are delivered, meeting established safety performance standards.

Guilford County Transportation and Mobility Services Goals for Safety are established as follows:

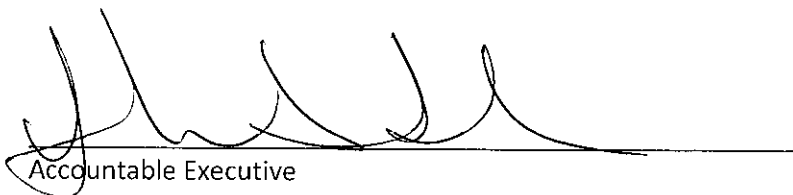
- In collaboration with the [Urban Service Area], design, construct, test, and operate a transportation system that achieves an optimum level of safety, exceeding the safety performance of other transit systems of a similar size in the United States.
- Identify and evaluate, then eliminate or control hazards to employees, customers, and the public.
- Meet or exceed all government and industry occupational health and safety standards and practices.
- Maximize the safety of future operations by affecting the design and procurement processes.

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- Maximize the safety of future operations by affecting the design and procurement processes.

The objectives of the PTASP are the means to achieving its goals. They also provide a method of evaluating the effectiveness of Guilford County Transportation and Mobility Services safety efforts. The PTASP objectives are:

- Integrate safety management and hazard control practices within each Guilford County Transportation and Mobility Services department.
- Assign responsibilities for developing, updating, complying with, and enforcing safety policies, procedures, and requirements.
- Verify compliance with Guilford County Transportation and Mobility Services safety policies, procedures, and requirements through performance evaluations, accident/incident trends, and internal audits.
- Investigate all accidents/incidents, including identifying and documenting the causes for the purpose of implementing corrective action to prevent a recurrence.
- Increase investigation and systematic documentation of near misses.
- Identify, analyze and resolve safety hazards in a timely manner.
- Minimize system modifications during the operational phase by establishing and utilizing safety controls at system design and procurement phases.
- Ensure that system modifications do not create new hazards.
- Train employees and supervisors on the safety components of their job functions.

Guilford County Transportation and Mobility Services takes these commitments seriously as the lives of Guilford County Transportation and Mobility Services riders, employees and the general public depend on Guilford County Transportation and Mobility Services ability to operate in a culture of safety.

  
Accountable Executive

10-1-20  
Date

## Safety Management Policy Communication

Guilford County Transportation and Mobility Services realizes the importance of ensuring its employees and riders are aware of Guilford County Transportation and Mobility Services safety management policies and procedures to effectively manage the system's day to day operations. To do this, Guilford County Transportation and Mobility Services relies on several forms of effective communication.

Employees: Guilford County Transportation and Mobility Services is constantly evaluating existing policies and procedures to verify their effectiveness. To do this, Guilford County Transportation and Mobility Services seeks input from all staff, *including other County departments*, to determine if change is necessary based on trends, data analysis, operational changes or new assets. Several methods are used to communicate policy and/or procedure changes, including:

- ◆ Employee daily manifest of work orders, agency meetings
- ◆ Bulletin board notices
- ◆ Employee email notification
- ◆ Departmental meetings

Guilford County Transportation and Mobility Services includes a training element for safety management policies impacting safety or service delivery and is conducted before the policy effective date. New policies and procedures are incorporated into orientation training for new employees as well.

Depending on the importance of the policy or procedure change, an acknowledgement signature is required of each employee verifying their understanding of the change.

Riders: If a rider policy is changed or added, Guilford County Transportation and Mobility Services notifies riders through the following methods:

- ◆ Notice posted on vehicle and facilities including effective date and who to contact for more information
- ◆ Changes to digital rider guidance including schedules and ride guides as appropriate
- ◆ Public Meetings
- ◆ Any services impacted by policies changes will include outreach as required by Federal Guidance.

## Authorities, Accountabilities, and Responsibilities

As mentioned in the Safety Policy Statement, the ultimate authority for the success of this PTASP falls to the Accountable Executive (AE). The Chief Safety Officer (CSO), the administration and management team, as well as employees fulfilling their commitment to safety on a day-to-day basis support the AE.

Accountable Executive (AE): The Accountable Executive will determine, based on feedback from senior staff, the level of Safety Management System principals to maintain to ensure a safe work environment, rider experience and community safety. Guilford County Transportation and Mobility Services AE is committed to providing employees with the tools and training needed to be successful and safe in their roles with Guilford County Transportation and Mobility Services. The AE will continually strive to create a culture of safety among the employees, and Guilford County Transportation and Mobility Services expects each employee to play a role in maintaining a safe workplace.

Guilford County Transportation and Mobility Services AE is accountable for ensuring that the agency's SMS is effectively implemented throughout the agency's public transportation system. The AE is accountable for ensuring action is taken, as necessary, to address substandard performance in the agency's SMS. *He or She* may delegate specific responsibilities, but the ultimate accountability for the transit agency's safety performance cannot be delegated and always rests with the AE.

The current AE, [Heather Skeens] is also the DSS Director and has ultimate responsibility for carrying out the Public Transportation Agency Safety Plan of a public transportation agency; responsibility for carrying out the agency's Transit Asset Management Plan; and control or direction over the human and capital resources needed to develop and maintain both the agency's Public Transportation Agency Safety Plan, in accordance with 49 U.S.C. § 5329(d), and the agency's Transit Asset Management Plan in accordance with 49 U.S.C. § 5326.

Chief Safety Officer (CSO) Irma Zimmerman: Guilford County Transportation and Mobility Services has concluded one CSO will be sufficient to manage the day to day adherence to this Plan and, while in this role, report directly to the AE. As CSO, this individual will monitor safety and security throughout the organization including sub-contractors. All departments have been notified of the CSO's role and the established reporting requirements relating to safety-related matters. The CSO has been adequately trained for this role and has the authority and responsibility for day-to-day implementation and operation of Guilford County Transportation and Mobility Services SMS. Along with CSO responsibilities, the CSO is also the Transportation Supervisor.

Guilford County Transportation and Mobility Services CSO will be responsible for the following:

- ◆ Developing and maintaining SMS documentation;
- ◆ Directing hazard identification and safety risk assessment;
- ◆ Monitoring safety risk mitigation activities;
- ◆ Providing periodic reports on safety performance;
- ◆ Briefing the Accountable Executive and Board of Directors on SMS implementation progress;
- and
- ◆ Planning safety management training.

## Roll of Staff to Develop and Manage Safety Management Systems (SMS)

### Accountable Executive

The Accountable Executive (AE), who also serves as General Manager, will work with the Chief Safety Officer (CSO) and Administrative staff to adjust the PTASP as needed based on staff feedback, trends, and data analysis. The AE is vested with the primary responsibility for the activities of the transit system and overall safety performance. The AE fulfills these responsibilities by providing the resources necessary to achieve PTASP goals and objectives by exercising the approval authority for system modifications as warranted. The AE also sets the agenda and facilitates the cooperative decision making of the Leadership Council (management team).

### Chief Safety Officer (CSO)

For purposes of managing the SMS and PTASP, the CSO will report directly to the AE to determine strategy, policy, and goals for maintaining safety and security for passengers, employees, and the general public. The CSO will monitor day to day operations and work with staff to identify and mitigate risk through evaluation, feedback, and data analysis.

### Supervisors

Supervisors are responsible for the safety performance of all personnel and equipment under their supervision. They are responsible for the initial investigation of all accidents and incidents, and for reporting these accidents and incidents to the Human Resources, Risk Management and Transportation Operations Department.

### Employees

All Guilford County Transportation and Mobility Services personnel are responsible for performing their work safely and for following established safety-related rules, procedures, and work practices. This includes reporting all accidents, incidents, and hazards to their supervisor per established requirements for the protection of themselves, co-workers, customers, facilities, and equipment.

### Key Staff

Guilford County Transportation and Mobility Services staff will be responsible for maintaining high standards of safety, customer service, and security. The Employee Safety Reporting Program (ESRP) will define the employees' role to identify and mitigate risk through open communication to superiors including the CSO and AE. Administrative staff will be instrumental in ensuring action is taken to reduce risk and the whole system is continuously monitored to ensure actions are effective and appropriate.

Guilford County Transportation and Mobility Services staff will be involved with updates, modifications and implementation of the PTASP. Each staff member brings a valued perspective to the development of policies and procedures he or she will be expected to implement. Every opportunity will be given for employees and riders to provide input to increasing safety at Guilford County Transportation and Mobility Services. Those opportunities include *monthly safety meetings, annual employee meetings and training, department meetings, customer and employee surveys and an open-door policy with access to all management staff.*

## Employee Safety Reporting Program (ESRP)

As stated in the Safety Management Policy Statement, Guilford County Transportation and Mobility Services is determined to provide a safe working environment for its employees, riders and the general public. To ensure success, Guilford County Transportation and Mobility Services has developed an ESRP to enable employees to report any risk or perceived risk to a supervisor, CSO, or member of administration.

The ESRP allows each employee to report detailed information and observations whether they are a driver in service, maintenance staff, or other on-duty employee. This program dovetails with other methods currently in place to proactively identify hazards or threats. Those methods include but are not limited to the following:

- ◆ Pre/Post Trip Inspections
- ◆ Preventive Maintenance Inspections
- ◆ Employee Evaluations
- ◆ Facility Maintenance Plan
- ◆ Service Evaluation and Planning Program
- ◆ Training Program
- ◆ Rider and Public Complaint/Compliment Process
- ◆ Safety and Employee Meetings
- ◆ Incident/Accident Policies
- ◆ Safety Committee

Guilford County Transportation and Mobility Services has developed a Hazard Report Form used to identify and provide information about hazards observed by Guilford County Transportation and Mobility Services employees while on-duty. The three-page form identifies vital information to assist employees in determining an action to mitigate the threat or hazard. This form is not meant to replace accident forms currently being used, but instead used in conjunction with the accident forms. It is a proactive reporting method to identify a perceived threat or hazard, potentially endangering employees, riders or the general public. The form serves a dual role as an incident, illness, and near miss report. The form is located in Appendix 1 of this Plan.

Effective September 2, 2020 all Guilford County Transportation and Mobility Services employees will receive *one* hour of training on the procedures associated with the Hazard Report Form. The training will cover the following areas:

- ◆ Locations of blank Hazard Report Form
- ◆ When to use a Hazard Report Form
- ◆ Capturing critical information on the form
- ◆ Notification process depending on the hazard
- ◆ Proper assessment of the reported hazard
- ◆ Levels of likelihood of repeat
- ◆ Supervisor and CSO role in completing the form
- ◆ Follow-up process to determine effectiveness of mitigation

The following process is used as part of the ESRP.

#### Immediate Action Required

If you have identified a hazard which you perceive to be a risk to yourself, fellow employees, passengers, or the public you must report it immediately to the on-duty supervisor/dispatcher. Once reported you must determine if immediate action is necessary to prevent additional risk. If so, communicate to supervisor before taking action if time allows. Once action has been taken to mitigate the potential harm to yourself, others or property advise a supervisor of the results of your actions. Once you are able, complete the Loss Prevention Investigation Report with complete information and give to supervisor on-duty.

#### Delayed Action Required

Once a hazard has been identified, the Guilford County Transportation and Mobility Services employee should assess if the hazard requires immediate action to reduce the risk of if delayed action can be taken. If the employee determines delayed action is appropriate a full report must be completed using the Loss Prevention Investigation Report and submitted to the on-duty supervisor.

#### Role of Supervisor

The on-duty supervisor is responsible for advising the employee on immediate action or delayed action to mitigate a hazard. The supervisor must then review the Loss Prevention Investigation Report to ensure all information is included adding additional information from their perspective. Once the form is complete it must be reviewed by the CSO to determine action necessary, investigate root cause of hazard and follow-up.

The CSO is responsible for determining the status of each hazard reported. In some cases hazards may be identified and are not able to be resolved but actions are taken to reduce the risk of the hazard. It is Guilford County Transportation and Mobility Services goal to eliminate all identified hazards if possible. Some hazards may require continuous monitoring to ensure the hazard does not elevate to an action level.

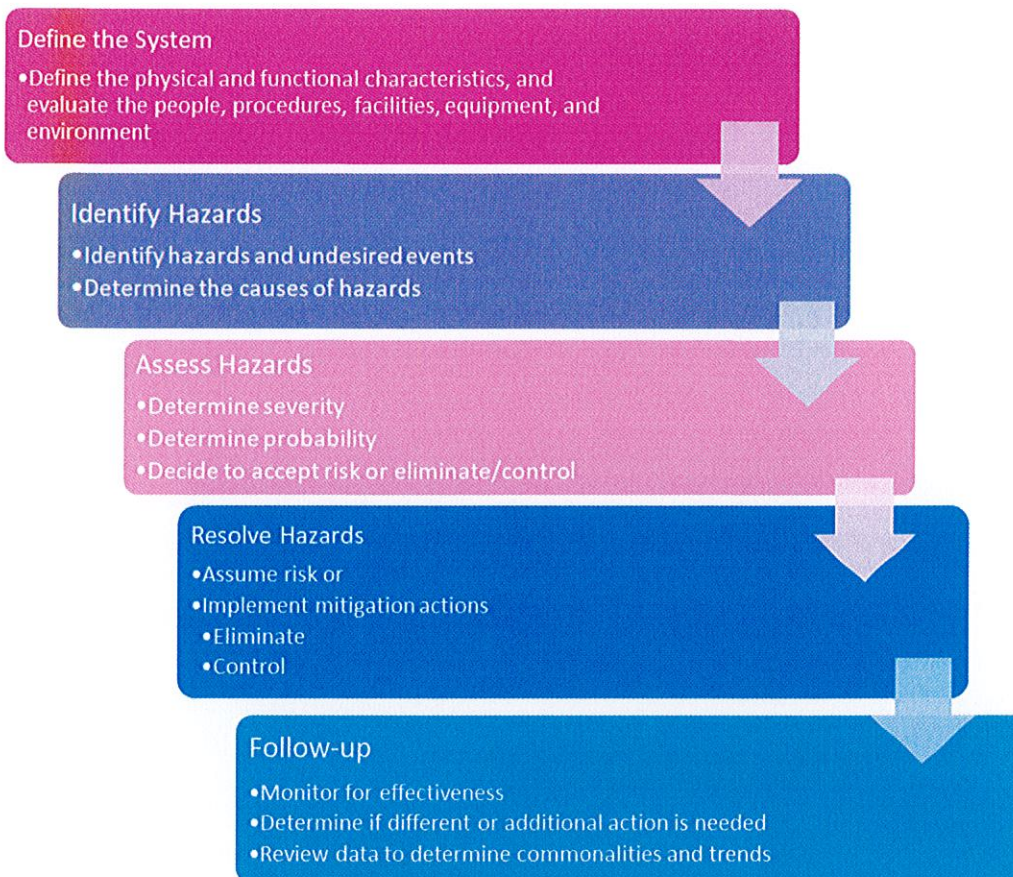
All hazard reports will be documented and integrated into current performance measures and data collection. The CSO will track each hazard to completion and recommend policy or procedural changes if needed as a result of the hazard mitigation.

#### Guilford County Transportation and Mobility Services Responsibility

Guilford County Transportation and Mobility Services takes every hazard report seriously and investigates each one to determine if it's an isolated case, or emerging trend requiring evaluation of policies and procedures or service modifications. Employees reporting hazards will not face disciplinary action unless that employee contributed to the hazard. Guilford County Transportation and Mobility Services wants to encourage all employees to report any hazard or threat they observe and help make the Guilford County Transportation and Mobility Services system as safe as possible for its employees, riders, and the general public. Employees may report the hazard to their immediate supervisor or go directly to the CSO to submit and discuss their report.

The following process chart illustrates the steps taken as part of the hazard identification process through the ESRP.





## Section 5. Safety Risk Management

Guilford County Transportation and Mobility Services provides training to all personnel in the identification of hazards and security threat while also providing tools to enable personnel to report these risks. Once the risk has been identified Guilford County Transportation and Mobility Services conducts an assessment of the risk to determine the necessary response and response time. The response may include further investigation or monitoring, action(s) to mitigate the hazard or security threat and follow-up assessment to ensure action taken is appropriate and effective.

### Safety Hazard Identification:

Hazard and security threats are identified through different methods of monitoring the system. This includes system, employee and asset assessments conducted daily and on incremental basis. Additionally, Guilford County Transportation and Mobility Services communicates with peers across the state, FTA and NCDOT to identify common hazards impacting multiple systems. Guilford County Transportation and Mobility Services conducts the following routine and random evaluations of the system in the following departments:

## Personnel

Each Guilford County Transportation and Mobility Services employee is evaluated annually to ensure they are performing their job to the expectations of the Agency. As part of their orientation process the employee is provided training and tools to perform their job while not receiving permanent status until completing 180 days of employment. During the 180 - day period, the employee is evaluated to determine if they are properly prepared to perform their job.

Additional evaluations of the employee are conducted throughout the year through spot-checks of some aspect of their job function. If through spot-check or annual evaluation it is determined the employee's performance does not meet expectations or training standards, remedial training will be provided and additional evaluations will take place to ensure remedial training was effective.

## Assets

Rolling stock, facilities and equipment are monitored through a vigorous preventive maintenance plan aimed at identifying hazards and deficiencies as part of daily and scheduled inspections. Operations and Maintenance Departments coordinate the preventive maintenance program including daily Vehicle Inspection Reports (VIR)s, incremental and annual inspections.

Guilford County Transportation and Mobility Services updates the FTA required Transit Asset Management (TAM) Plan annually with data relevant to each asset to include a condition assessment, miles (with rolling stock and non-revenue vehicles) and age as to whether the asset is in a State of Good Repair (SGR). The TAM Plan allows Guilford County Transportation and Mobility Services management to plan asset replacement or rehabilitation for future years.

## System

As part of Guilford County Transportation and Mobility Services safety management system monitoring, the agency uses service evaluations when planning, spot-checking or responding to an event like an accident or incident. New routes are strategically developed with safety being the first priority and passenger access second. Guilford County Transportation and Mobility Services route planners plan and test all routes before activating the route for revenue service. All routes are reviewed periodically to determine if environmental hazards may exist requiring modification to the route, schedule or vehicle.

All front-line staff have been trained to note any changes to service which may be considered a hazard or security threat and through the ESRP, notify their supervisors immediately or upon return to Guilford County Transportation and Mobility Services depending on the severity of the hazard.

## Hazard Identification Procedure

Any employee seeing something through inspection or observation they deem to be a hazard are instructed to immediately report that hazard to the immediate supervisor regardless of the perceived level of threat. Depending on the situation, either the immediate supervisor or the employee will complete a Hazard Report Form and submit it to the CSO.

If the hazard requires immediate mitigation, the employee will be instructed on steps to take to reduce the risk which may or may not alleviate the risk completely. Additional actions may be taken once the

immediate risk mitigation has been taken. Some hazards may not pose an immediate risk but are still reported and the CSO will be responsible for risk assessment, investigation and mitigation strategy.

In some cases, a passenger or member of the general public may call Guilford County Transportation and Mobility Services with a complaint about a front-line employee which may rise to the level of hazardous behavior or actions. Guilford County Transportation and Mobility Services currently documents all customer complaints/compliments and takes appropriate action to investigate any complaints. Complaints deemed hazardous will trigger immediate action by on-duty supervisors.

Hazard Report Forms will be located on all vehicles along with standard safety kits for accident and incident reporting, with all Customer Service Representatives (CSR)'s, Dispatch, Operations, and Maintenance Departments. A copy of the form is located in Appendix 1.

The Hazard Report Form will require the employee to briefly describe the hazard noting date, time of day, location, and other pertinent information. The form includes a section for the CSO or immediate supervisor to document immediate action taken to reduce risk, a risk assessment chart prioritizing the risk, and a section for additional follow-up action. All forms will be processed by the CSO and summarized periodically for trend analysis and include in safety performance measures.

49 CFR part 673.5

*Hazard* means any real or potential condition that can cause injury, illness, or death; damage to or loss of the facilities, equipment, rolling stock, or infrastructure of a public transportation system; or damage to the environment.

### Safety Risk Assessment

All Guilford County Transportation and Mobility Services staff have been provided with training appropriate for their positions within the organization. Guilford County Transportation and Mobility Services expects its employees to respond to hazards or threats with professional judgement as sometimes there might not be time to contact a supervisor to prevent an emergency event. In cases where the hazard can be reported without immediate risk, the employee will make an initial assessment of the risk as part of their report.

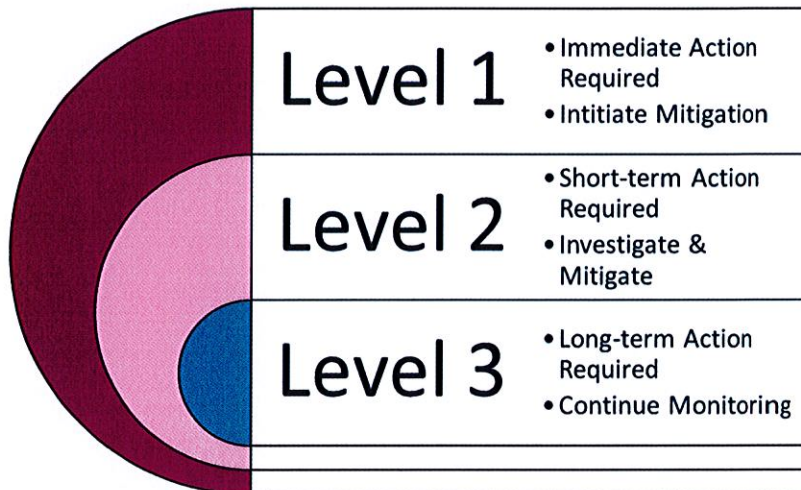
Once received by the CSO, the initial risk assessment may be amended requiring immediate, short, or long-term response.

**Level 1** - Immediate: A deficiency, threat or hazard requiring immediate attention to mitigate risk either temporarily until further action can be taken or complete mitigation.



**Level 2** - Short Term: Action is needed within seven days to mitigate an identified deficiency, threat or hazard. The deficiency, threat or hazard does not pose immediate danger but if no action is taken could elevate to an Immediate level risk.

**Level 3** - Long Term: A deficiency, threat or hazard has been identified but does not pose a threat currently but could at a later time. Continued monitoring and awareness are required.



The CSO in coordination with staff will investigate each identified hazard, assess the risk, and take appropriate action to mitigate the risk. Additional mitigation may be needed based on follow-up monitoring to the action taken.

#### Safety Risk Mitigation

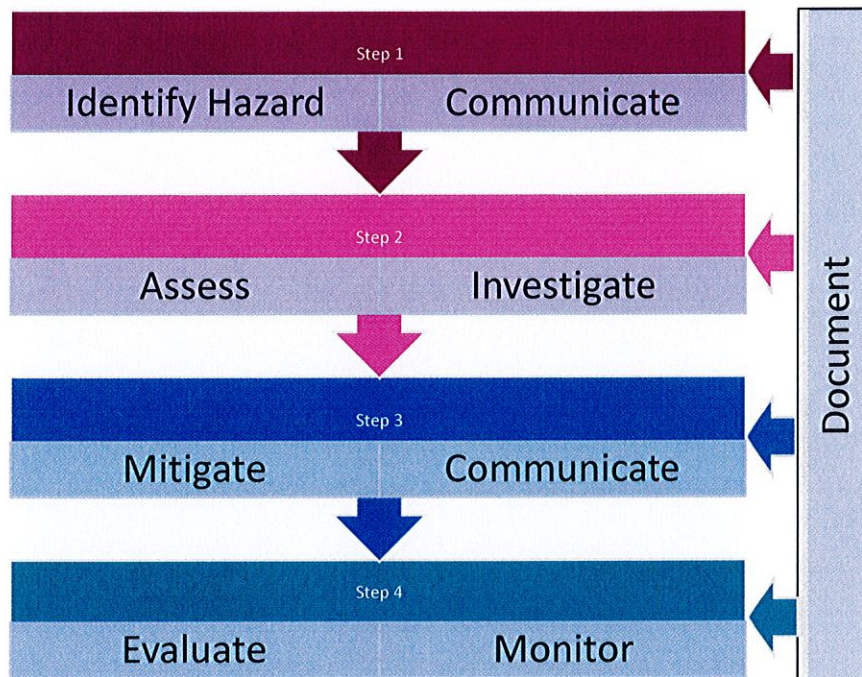
In response to all identified and assessed hazards, Guilford County Transportation and Mobility Services will take steps to mitigate the hazard and reduce or eliminate the risk to employees, riders, and public. Mitigation strategies will be dependent on results of investigation into the elements contributing to the risks. The investigation may include more than one department and may include interviews outside of the transit system.

Actions to mitigate risk will include all employees, riders, and public who may be impacted by either the hazard or the actions to reduce or alleviate the risk. Guilford County Transportation and Mobility Services will communicate actions to appropriate staff through methods appropriate risk assessment. In some cases, immediate communication through two-way communications (dispatch system, text burst, email, or web alert) may be necessary. In other cases, bulletin board notices or memorandum posting may be appropriate.

Once a risk mitigation strategy has been implemented Guilford County Transportation and Mobility Services will monitor the actions to determine if full mitigation is possible and if not, is additional action

necessary to alleviate the risk or is stepped up monitoring necessary. Some risks may not be completely mitigated but awareness to the risk will be a top priority.

All actions taken to mitigate risk will be responsibility of the CSO, documented and linked to the initial deficiency, threat, or hazard identification step.



## Section 6. Safety Performance Monitoring and Measurement

Safety performance monitoring and measurement involves the continual monitoring of the transit agency's activities to understand safety performance. Through these efforts, Guilford County Transportation and Mobility Services can determine whether it is meeting its safety objectives and safety performance targets, as well as the extent to which it is effectively implementing Safety Management Systems (SMS).

Guilford County Transportation and Mobility Services is constantly striving to maintain the highest level of safety through its monitoring methods to include adherence to policies and procedures, safety and maintenance plans, and system and employee evaluation processes. These methods allow Guilford County Transportation and Mobility Services to determine the need to make changes to improve policies, employee training and service delivery.

The CSO will monitor operations daily through observation, data analysis, communication and safety updates to identify mitigation strategies that may be ineffective. If mitigation actions are found to be ineffective additional strategies will be developed through key and impacted staff feedback.

### Maintenance

**Maintenance Standards and Procedures.** Standards and procedures are included in the Guilford County Transportation and Mobility Services Maintenance Plan. In general, maintenance procedures are designed to ensure that the maintenance recommendations of the manufacturer are met, maximum efficiency in performance and operation is obtained, and maximum bus life and condition are maintained. Daily bus inspections, an active Preventive Maintenance Program, contractor oversight, and careful monitoring are included in procedures to ensure the safety of buses and adequacy of the Fleet Maintenance Plan.

**Operator Inspections.** All operators are required to perform a pre-trip and post-trip inspection to ensure that the vehicle is safe and in good operating condition. If any defects are noted by the operator, a Defect Slip is completed and, depending on the severity and extent of the defect, the vehicle may be repaired or taken out of service until a repair can be made. In the case of a defect that develops or is noted once a vehicle is in service, the operator is required to communicate the problem to Operations, who will then notify Maintenance.

**Daily Servicing and Inspections.** The Guilford County Transportation and Mobility Services Maintenance Department inspect and service buses used in revenue service each day. The buses are fueled and washed, all fluids are checked, tires and lugs are checked, and the vehicle is inspected for any leaks or unusual noises. The Cleaners clean the bus interiors each day. When a defect is noted, it is reported to the Lead Mechanic or Supervisor on shift so that evaluation and, if necessary, a repair can be conducted.

**Mileage-Based Maintenance Inspections.** All buses receive preventive maintenance inspections (PMI) at designated mileage intervals. Mileages are determined by vehicle and subcomponent manufacturers and real-world experience. Oil sampling is performed periodically for both engines and transmissions. A

description of the schedule and type of inspection and service performed for each bus series is included in the Guilford County Transportation and Mobility Services Maintenance Plan.

## Operations

### Facility Monitoring

Formal facility inspections of all Guilford County Transportation and Mobility Services facilities and grounds are conducted by Guilford County Transportation and Mobility Services Maintenance/Safety/Facilities quarterly using a facility checklist. The purpose of the inspections is to identify any unsafe or unhealthy conditions which may exist, and that may require maintenance or modification. Each facility is also visually inspected for compliance with OSHA and local fire codes.

Any guests to Guilford County Transportation and Mobility Services administration facility must check in through a secured process requiring check-in and validation of visit purpose. Employees are trained on procedures for visitors in the workplace and facility access is limited through security systems.

### Frequency

The Safety Committee conducts its safety inspections quarterly. Mechanics and Facilities Maintenance employees look for potential hazards with equipment whenever they are using that equipment. The vehicle hoists, chain pulls, and cranes in the vehicle maintenance shop are inspected annually by contractors. Preventive maintenance of equipment and facilities is performed in accordance with the manufacturer's recommended practice. Hazards are also identified by analyzing work accident trends, through Hazard Report Forms submitted by employees. Forms are used by employees to report safety concerns and to make safety recommendations.

### Reporting

When deficiencies are noted during quarterly inspections, they are documented and reported to the director of the department in which the safety hazard is located. When safety hazards are noted by non-scheduled observation, they must be reported by the observer to a supervisor or CSO. Hazard Report Forms are routed to the department, Chief Safety Officer or director best equipped to evaluate the concern and, when necessary, propose a resolution.

### Hazard Resolution

The primary purpose of facility inspections and hazard reporting is to identify conditions that could lead to accidents and losses. In view of this, it is crucial that all departments and employees be involved in the Facility Inspection and the Hazard Identification and Resolution processes. Hazard resolution is related to the severity of the hazard and the probability and severity of a negative consequence of the hazard.

### Follow-up

Corrective action for a confirmed hazard that has been identified by any established process is the responsibility of the director of the department area in which the hazard exists or the CSO. This includes arranging for the services of other Guilford County Transportation and Mobility Services departments or outside parties, as necessary, to eliminate or control the hazard.

## Documentation

Hazards that have been identified, proposed resolutions, and corrective actions are recorded in hard copy by the Safety Committee and maintained by CSO

All front-line personnel are responsible for monitoring safety and security as part of their respective positions. If a hazard is identified through observation or interaction with customers or the general public, it is reported to the immediate supervisor as well as following Guilford County Transportation and Mobility Services hazard reporting process.

## Employee Hazard Reporting

### Loss Reports

Employees can fill out a Hazard Report Form which is turned into the effected department and the CSO, talk with a supervisor or the Risk Manager. They can also contact a Safety Committee member which is comprised of union and administrative members. Depending on the severity/risk of the hazard identified, immediate action may be taken, or the input will be brought to the Safety Committee for discussion. Feedback will be provided to the employee on what action, if any, will be taken. All employees follow the Employee Hazard Reporting Program Policy.

### Route/Operations Safety

Employees can fill out a Hazard Report Form or discuss suggestions for making the system/route safer. Guilford County Transportation and Mobility Services encourages employees to be advocates for safety while also suggesting methods of increasing performance. Management has an open-door policy and makes clear the importance of employee feedback; positive and negative.

## Safety Events

### Accident and Incident Reporting Process

All accidents and loss incidents are to be investigated. Guilford County Transportation and Mobility Services safe driving standards require professional safe performance of all operators. To ensure better than average safety performance, Guilford County Transportation and Mobility Services employs the Smith System Defensive Driving, National Safety Council, TAPCO and other guidelines to determine if a collision or onboard incident could have been prevented. All personnel operating any Guilford County Transportation and Mobility Services vehicle are held to this standard.

The Guilford County Transportation and Mobility Services Operator's Manual includes procedures and responsibilities for accident/incident investigation. The combined manuals establish procedures for accident notification, response, and investigation.

Transit Operations coordinates with outside law enforcement agencies if they investigate an event. Administrative staff coordinates with outside insurance providers and provides support among Guilford



County Transportation and Mobility Services departments and independent investigation to manage Guilford County Transportation and Mobility Services liability and claims.

Most accidents and incidents involving Guilford County Transportation and Mobility Services are relatively minor in severity and are investigated by Transportation Supervisor. Since most accidents involve buses, this section focuses on bus accidents. However, all non-bus accidents and incidents are also investigated.

#### Notification

Bus Operators are to notify the operations system supervisor anytime a Guilford County Transportation and Mobility Services vehicle might have been damaged, anytime a Guilford County Transportation and Mobility Services vehicle and another vehicle come into contact, or anytime an instance occurs in where a customer may have been injured. The Transportation Supervisor will be directed to the scene. Police and ambulance will be dispatched, if necessary.

#### At-Scene Procedures

Bus Operators will adhere to the following procedures defined in the Guilford County Transportation and Mobility Services Operator's Manual:

- ◆ Assist the injured.
- ◆ If blocking traffic, set out reflective triangles.
- ◆ Do not move the bus unless required to do so by the Transportation Supervisor, fire or police order, or impending danger from traffic.
- ◆ Obtain names, addresses, and phone numbers of all witnesses.
- ◆ Have all customers sign the customer list.

Transportation Supervisor/Chief Safety Officer are responsible for conducting on-scene investigations of accidents and incidents. Depending on the severity and the nature of the event, various mechanisms will be used for preserving transient evidence. These may include digital photography, bus video, field sketches, interviews, and observations.

#### Investigation

An attempt is made to complete the investigation of most accidents within three days. Transportation Supervisor are required to complete an Accident/Incident Report. Operators are required to complete an Accident Information Report. The Supervisor is required to file both reports electronically as well as a hard copy and attach all relevant media for use by the Director and the Chief Safety Officer.

A Report of Injury Form must be completed if an employee suffers an injury or illness as a result of an accident or incident.

## Accident Review Process

Accidents and Incidents are classified as Preventable or Non-Preventable.

Preventable accidents are defined as those accidents that could have been reasonably avoided if the operator had followed all defensive driving techniques as established by the National Safety Council Guidelines, the Five Keys of the Smith System, and/or Transit Operations Procedures and Policies.

After reviewing all related documents and evidence, the investigating Transportation Supervisor/Chief Safety Officer, Risk Manager makes an independent preliminary determination of whether the accident was preventable.

The final accident determination is made by the Director.

Director, Risk Manager and Transportation Supervisor/Chief Safety Officer follows all policies, procedures, and definitions as established in the Employee Policy and Procedure. Examples of investigations may include reviews of accident and injury reports, vehicle condition reports, witness statements, employee interviews, accident scene sketches, bus videos, physical evidence, brake test reports, training manuals, and accident site visits. Employees who are not in agreement with the determination can appeal directly to the Director by providing additional evidence and testimony. If the employee is not in agreement with the appeal results, he or she can make a second and final appeal to the DSS Director, Heather Skeens. The DSS Director, Heather Skeens may review all relevant information, interview the employee making the appeal, interview Safety Committee members, and confer with any available person or resource he or she considers valuable to his or her deliberation.

### Hazard Resolution

The primary purpose of the Accident Investigation process is to determine the cause(s) of accidents so that they may be prevented or mitigated in the future. To this end, it is crucial that all relevant departments be appropriately involved in the Process. A serious attempt is made to use lessons learned through the investigatory process to incorporate hazard resolutions into future procedures, designs, construction, modifications, training, and procurements.

### Follow-up

Follow-up in the form of corrective actions is the responsibility of the employee's director. The responsibility may be delegated to the employee's manager, supervisor or Chief Safety Officer.

Any disciplinary action will be assessed using the County Regulations /Administrative Handbook. Disciplinary consequences for accidents may include warnings, suspensions, and discharge.

Training will be provided, in most cases, for employees who have been involved in two preventable accidents within one year. Training and re-training are not disciplinary in nature.

### Internal Reporting

The Transportation Supervisor is responsible for ensuring that all accident reports are completed and filed with Human Resources, Risk Management and Chief Safety Officer. Human Resources will advise on the history of the employee if a pattern of safety events is evident.

## Documentation

Transit Operations and Human Resources and Chief Safety Officer maintain the accident investigation documentation.

## Performance Measures

Through a series of performance measures relative to operations, maintenance, and safety, Guilford County Transportation and Mobility Services can monitor the system's safety by identifying trends and gaps in policies, procedures, training, and monitoring efforts. The following performance measures are on a daily, monthly, and quarterly basis.

### Maintenance

**Preventive Maintenance On-time Inspection Percentage** – determines the effectiveness of the maintenance department to ensure all inspections are conducted per manufacturing and Guilford County Transportation and Mobility Services mileage intervals.

- ◆ **Vehicles Removed From Revenue Service** – tracks vehicles removed from service due to a mechanical defect developed while in service requiring immediate service either on-site of failure or once returned to the facility.
- ◆ **Annual Vehicle Condition Assessment** – through annual inspection, determines on a scale of 1-5 the overall condition of the asset. This performance measure is also used in annual updates of Guilford County Transportation and Mobility Services Transit Asset Management Plan.

### Operations

- ◆ **Customer Complaints Per Month** – tracks all customer complaints to identify areas of deficiency with vehicle, driver or other Guilford County Transportation and Mobility Services areas. Safety-related complaints are immediately routed to a supervisor on-duty or the Chief Safety Officer for investigation mitigation and response. Complaints may be a result of phone calls, website or Guilford County Transportation and Mobility Services public forums.
- ◆ **On-time Performance** – serves as an indicator to issues with time management, environmental factors, scheduling, and vehicle and driver performance.
- ◆ **On-board Surveys** – conducted annually, allow Guilford County Transportation and Mobility Services to receive rider feedback about bus operator performance, customer service, and vehicle safety.

### Safety

- ◆ **Safety Performance Measure: Fatalities** (total number of reportable fatalities and rate per total vehicle revenue miles by mode)
- ◆ **Safety Performance Measure: Injuries** (total number of reportable injuries and rate per total vehicle revenue miles by mode)

- ◆ **Safety Performance Measure: Safety Events** (total number of reportable events and rate per total vehicle revenue miles by mode)
- ◆ **Safety Performance Measure: System Reliability** (mean distance between major mechanical failures by mode)

## 7. Safety Promotion

### Operator Selection

#### Hiring Practices

Selecting applicants best suited to excel at the Bus Operator job requirements is critical to safe transit operations. The transit Bus Operator is directly responsible for the safety of not only the passengers, but also the pedestrians, bicyclists, drivers, and all others who share the road with the transit vehicle. Guilford County Transportation and Mobility Services hiring process includes the following components:

#### Applications

Applicants are sought through postings in traditional and culturally diverse media, referrals from current employees, posted in County Website, Guilford County Transportation and Mobility Services website and applications filed by prospective candidates when there are no positions available. The applications are screened by key personnel in Human Resources and Transit Operations.

#### Interview

After application reviews, applicants are then interviewed by a panel comprised of an Operations Supervisor, an Operator/Instructor, and an HR or other administrative staff person. The interview process is designed to evaluate a candidate's strengths in customer service, the ability to simultaneously perform tasks, conflict resolution, and the ability to perform well under temporal and interpersonal pressure.

#### Driving Record

To be eligible for hire, a candidate must submit an acceptable driving Guilford County Transportation and Mobility Services tract dating back five years. This establishes 21 years as the de facto minimum age requirement for new hire Bus Operators.

#### Licensing

To be eligible for hire, a candidate must be able to earn a North Carolina State Driver's License.

#### Criminal Background Check

To be eligible for hire, a candidate must submit to a Criminal Background Check administered by the North Carolina State Police with the Federal Bureau of Investigation. The results must meet all statutory and Guilford County Transportation and Mobility Services standards for the Bus Operator position.

#### Drug Testing

To be eligible for hire, a candidate must produce a negative result for a pre-employment drug test.

### *Physical Capacities Testing*

To be eligible for hire, a candidate must pass a position-specific physical capacities test.

## Training

There are formal training programs for Bus Operators, Maintenance employees and Operations employees. These include training classes, manuals, Guilford County Transportation and Mobility Services Standard Operating Procedures, and on-the-job training.

The safety component of training is designed to make employees aware of the hazards associated with their jobs and the appropriate methods for controlling these hazards. The training is intended to motivate employees to work safely. Trainings fall into three main categories: (1) Initial, (2) Periodic, and (3) Remedial or Refresher.

### Initial Bus Operator Training

New Bus Operators receive an intensive two week training course that covers every aspect of their new job. Some components of the training are delivered in the classroom. The majority of learning occurs on the buses during off-route and on-route training. The training includes, but is not limited to, the following areas:

- TAPCO
- Orientation to Bus System
- Basic Bus Maneuvers
- Advanced Bus Maneuvers
- Service Stops
- System Overview
- System Procedures
- Communication skills
- Customer Service
- Accessible Service
- Emergency Management
- Fleet Services
- Personal Safety
- Health/Injury Prevention
- Stress Management

- On-route Training
- Vehicle Orientation of all Vehicles

On-route training provides real service experience with an Operator Instructor on the new operator's regularly scheduled work. The time the new employee operates the revenue route is increased daily. Each day the student receives a full review and debriefing from his or her instructor. Instructors communicate among one another regarding where additional training for new operators is required. Student rotation among the Operator Instructor group provides each student with experience across a variety of routes, vehicles, times of day, instructional styles, and driving conditions.

After the initial training, new Bus Operators receive additional support and training, including:

- Check-rides at the following intervals: three months, twelve months
- Four-Week Follow-up: Procedure and Policy Review
- Fall Bad Weather: Driving and Defensive Driving Course (DDC)
- Refresher
- Annually: Dealing with Difficult People

#### Annual Training For All Bus Operators

Every year, each Bus Operator receives one full day of refresher and topical training during the autumn months. The training addresses, but is not limited to, the following topics:

- Fatigue Awareness
- Dealing With Difficult People
- Resolving Conflict
- Harassment
- Effectively Dealing With People of Differing Ages
- Proper Securement of Mobility Devices
- Defensive Driving Course
- Bloodborne Pathogens
- Safety/Security Update
- Injury Prevention
- Accessible Service Sensitivity
- PTASP and SMS

Partial-day trainings are also scheduled on safe winter driving and whenever warranted by the addition of new equipment or a change in configuration.

#### Initial Operation Supervisor Training

Transit Operations Supervisors begin their career path, almost exclusively, as Bus Operators who first work in the position of Temporary Supervisor. A Temporary Supervisor performs many functions of the full supervisory position and receives training in, but not limited to, the following areas:

- Drug & Alcohol (Policy and procedures for all types of FTA-mandated testing)
- Accident Investigation (based on the TSI model)
- Emergency Procedures
- Security Procedures
- On-the-job Injury Claims
- Blood Borne Pathogens
- Data Entry and Recordkeeping
- Harassment
- Cultural Diversity
- Coaching/Criticism/Discipline
- Dispatch Operations
- Field Operations
- First Aid and Defibrillator
- Conflict Resolution

In addition to their initial training, all Transit Operations Supervisors receive five full days of refresher and topical training annually.

#### Injury and Illness Prevention Training

Injury and Illness Prevention Training is directed toward achieving a safe working environment for all employees and reducing the chance of occupational-related injuries and illnesses. The majority of training, targets employees working in the Maintenance and Facilities Maintenance Departments because these employees have the greatest exposure to occupational hazards. The program is based on applicable Federal, State, and local safety codes and regulations. Some areas addressed in training include:

- Handling Hazardous Materials (Right to Know)
- Slips, Trips, and Falls

- Personal Protection Equipment
- Material Safety Data Sheets (MSDS) and Labels
- First Aid
- Bloodborne Pathogens
- Hazardous Materials Storage
- Fall Protection
- Hazard Communication Program

#### Emergency Response Planning and Coordination

Details are contained in the Guilford County Transportation and Mobility Services Emergency Action Plan and Evacuation Request Procedures.

#### System Modification Design Review and Approval

##### General Process

The Guilford County Transportation and Mobility Services bus system is regularly modified in response to operational experience, the addition of new types of service, and changes in service design and levels. Guilford County Transportation and Mobility Services philosophy is to use appropriate new technologies to benefit the environment and the community it serves. The challenge is to review any proposed modification adequately before it is approved. Any proposed modification should be evaluated to ensure it is compatible with existing systems and does not introduce new hazards to the system or reduce the effectiveness of existing hazard controls.

Equipment modifications may be proposed by any employee of any department that uses the equipment. Changes may also occur from an analysis of reliability performance, historical data, and available improvements in equipment design and components.

##### Modification Design Review

A review of any modification in equipment design shall be made by the director and managers of the department responsible for the equipment. It is an informal practice to include Human Resources and Operations in the review of any change that might affect safety. The impact on the safety of all designs and specifications should be identified and evaluated before the change is approved. Some of the areas to be considered include but are not limited to:

- *Hazardous Materials (handling and use)*
- *Motor Vehicle Safety*
- *Human Factor*



- *Occupational Health and Safety*
- *Fire Protection*
- *Lighting*
- *Braking systems*
- *Mirrors*
- *Warning Devices*

Modifications must not be made before it is determined how they might affect the safety of the system, or any other systems. Other departments may evaluate a proposed change to determine its compatibility with other systems (e.g., hoists, fueling systems, communications systems). The evaluation may also include a review of applicable regulations, such as the Federal Motor Vehicle Safety Standards and Regulations and the U.S. Department of Labor's Occupational Safety and Health Act.

Testing may also be performed to evaluate the safety of a proposed modification. The testing of small changes may be minimal. For substantial modifications, extensive field testing, mock-ups, and structural evaluations may be employed.

#### Modification Design Approval

Final approval is generally made by either the Accountable Executive or the County Manager and Development. When modifications are made by a bus manufacturer, the Director of Maintenance works with the manufacturer, and contractual changes may be made. If changes are substantial, additional training will be provided for maintenance and operation staff.

#### Monitoring

Once a modification is put in place, feedback from the operating department is solicited to evaluate the performance of the modification. Unsolicited input from the operating department and its employees (end users) is also encouraged. Depending on the nature of the modification, *Human Resources and the Safety Committee* may be involved for input.

#### Documentation

The Maintenance Department is responsible for documenting any vehicle modifications. Facilities Services is responsible for documenting any modifications made to a facility. Documentation may involve changing diagrams, schematics, manuals, service bulletins, service intervals, standard operating procedures, and Material Safety Data Sheets. Maintenance Supervisors are responsible for updating Safety Data Sheets based on input from product manufacturers.

#### Routes

Route modifications are designed by the Chief Safety Officer. The CSO may use a current Bus Operator to test routing and bus stop placement. This experience-based, real-world process is designed to protect the safety of the transit bus, transit passengers, other vehicles, and pedestrians.

Transit operations management may request a route modification it believes will improve operations. It may also choose to evaluate a modification that has been proposed by another department. Input from

individual Bus Operators is encouraged through the Hazard Report Form, direct communication, and periodic surveying of Operators conducted by Chief Safety Officer.

Finally, the Operations Department maintains a cooperative working relationship with the appropriate planning and road departments of all municipal levels of government within which Guilford County Transportation and Mobility Services operates.

## 8. Additional Information

This PTASP was developed from information in other Guilford County Transportation and Mobility Services documents, policies and procedures and manuals. Those documents are listed below:

- Guilford County Transportation and Mobility Services Employee Handbook
- Safety and Security Plan (SSP)
- Vehicle Maintenance Plan
- County Ordinances
- Training Manual

## 9. Definitions of Terms Used in the Safety Plan

Guilford County Transportation and Mobility Services incorporates all of FTA's definitions that are in 49 CFR § 673.5 of the Public Transportation Agency Safety Plan regulation.

- **Accident** means an Event that involves any of the following: A loss of life; a report of a serious injury to a person; a collision of public transportation vehicles; a runaway train; an evacuation for life safety reasons; or any derailment of a rail transit vehicle, at any location, at any time, whatever the cause.
- **Accountable Executive** means a single, identifiable person who has ultimate responsibility for carrying out the Public Transportation Agency Safety Plan of a public transportation agency; responsibility for carrying out the agency's Transit Asset Management Plan; and control or direction over the human and capital resources needed to develop and maintain both the agency's Public Transportation Agency Safety Plan, in accordance with 49 U.S.C. 5329(d), and the agency's Transit Asset Management Plan, in accordance with 49 U.S.C. 5326.

- **Equivalent Authority** means an entity that carries out duties similar to that of a Board of Directors for a recipient or subrecipient of FTA funds under 49 U.S.C. Chapter 53, including sufficient authority to review and approve a recipient or subrecipient's Public Transportation Agency Safety Plan.
- **Event** means any Accident, Incident, or Occurrence.
- **Hazard** means any real or potential condition that can cause injury, illness, or death; damage to or loss of the facilities, equipment, rolling stock, or infrastructure of a public transportation system; or damage to the environment.
- **Incident** means an event that involves any of the following: a personal injury that is not a serious injury; one or more injuries requiring medical transport; or damage to facilities, equipment, rolling stock, or infrastructure that disrupts the operations of a transit agency.
- **Investigation** means the process of determining the causal and contributing factors of an accident, incident, or hazard, for the purpose of preventing recurrence and mitigating risk.
- **National Public Transportation Safety Plan** means the plan to improve the safety of all public transportation systems that receive Federal financial assistance under 49 U.S.C. Chapter 53.
- **Occurrence** means an Event without any personal injury in which any damage to facilities, equipment, rolling stock, or infrastructure does not disrupt the operations of a transit agency.
- **Operator** of a public transportation system means a provider of public transportation as defined under 49 U.S.C. 5302.
- **Performance measure** means an expression based on a quantifiable indicator of performance or condition that is used to establish targets and to assess progress toward meeting the established targets.
- **Performance target** means a quantifiable level of performance or condition, expressed as a value for the measure, to be achieved within a time period required by the FTA.
- **Public Transportation Agency Safety Plan (or Agency Safety Plan)** means the documented comprehensive Agency Safety Plan for a transit agency that is required by 49 U.S.C. 5329 and Part 673.
- **Risk** means the composite of predicted severity and likelihood of the potential effect of a hazard.
- **Risk mitigation** means a method or methods to eliminate or reduce the effects of hazards.
- **Safety Assurance** means processes within a transit agency's Safety Management System that function to ensure the implementation and effectiveness of safety risk mitigation, and to ensure that the transit agency meets or exceeds its safety objectives through the collection, analysis, and assessment of information.
- **Safety Management Policy** means a transit agency's documented commitment to safety, which defines the transit agency's safety objectives and the accountabilities and responsibilities of its employees in regard to safety.

- **Safety Management System** means the formal, top-down, organization-wide approach to managing safety risk and assuring the effectiveness of a transit agency's safety risk mitigation. SMS includes systematic procedures, practices, and policies for managing risks and hazards.
- **Safety performance target** means a performance target related to safety management activities.
- **Safety Promotion** means a combination of training and communication of safety information to support SMS as applied to the transit agency's public transportation system.
- **Safety risk assessment** means the formal activity whereby a transit agency determines Safety Risk Management priorities by establishing the significance or value of its safety risks.
- **Safety Risk Management** means a process within a transit agency's Agency Safety Plan for identifying hazards and analyzing, assessing, and mitigating safety risk.
- **Serious injury** means any injury which: (1) Requires hospitalization for more than 48 hours, commencing within 7 days from the date when the injury was received; (2) Results in a fracture of any bone (except simple fractures of fingers, toes, or noses); (3) Causes severe hemorrhages, nerve, muscle, or tendon damage; (4) Involves any internal organ; or (5) Involves second or third-degree burns, or any burns affecting more than 5 percent of the body surface.
- **Transit agency** means an operator of a public transportation system.
- **Transit Asset Management Plan** means the strategic and systematic practice of procuring, operating, inspecting, maintaining, rehabilitating, and replacing transit capital assets to manage their performance, risks, and costs over their life cycles, for the purpose of providing safe, cost effective, and reliable public transportation, as required by 49 U.S.C. 5326 and 49 CFR Part 625.

## 10. Commonly Used Acronyms

Acronym	Word or Phrase
ADA	American's with Disabilities Act of 1990
ASP	Agency Safety Plan (also referred to as a PTASP in Part 673)
CFR	Code of Federal Regulations
CT	County Transit
ESRP	Employee Safety Reporting Program
FTA	Federal Transit Administration
NCDOT	North Carolina Department of Transportation
MPO	Metropolitan Planning Organization
Part 673	49 CFR Part 673 (Public Transportation Agency Safety Plan)
SMS	Safety Management System
SSP	System Safety Plan

U.S.C.	United States Code
VRM	Vehicle Revenue Miles

## Appendix 1

## HAZARD REPORTING FORM

Reporting Employee			Report #	
Date of Report				
Time of Hazard			Time Report Submitted	
Location of Hazard			Route/Manifest	
Supervisor Notified				
(Check all that apply)				
<b>Type of Hazard</b>				
Vehicle		Weather Related		
Passenger		Road Condition		
Facility		Security		
Employee		Near Miss		
<b>Description of Hazard</b>				
<b>Initial Action Taken to Mitigate Hazard</b>				
<b>Initial Assessment of Hazard</b>				
	Level 1 - Immediate: A deficiency, threat, or hazard requiring immediate attention to mitigate risk either temporarily until further action can be taken or complete mitigation.			
	Level 2 - Short Term: Action is needed within seven days to mitigate an identified deficiency, threat, or hazard. The deficiency, threat, or hazard does not pose immediate danger, but if no action is taken could elevate to an Immediate level risk.			
	Level 3 - Long Term: A deficiency, threat or hazard has been identified but does not pose a threat currently, but could at a later time. Continued monitoring and awareness are required.			
<b>Likelihood of re-occurrence of this hazard (1-10)</b>				
Received by: _____			Date/Time _____/_____/_____	