

# **Hartsfield-Jackson Atlanta International Airport**

**City of Atlanta**

**Department of Aviation**

**Office of Infrastructure Planning & Development**

## **Concessions**

# **New Construction and Modifications**

*Design Standards*

**Construction**

## Construction Standards

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## Construction Standards

### 1.0 PURPOSE

The purpose of these Standards is to provide airport Concessionaires with specific Department of Aviation (DOA) requirements for performing any construction work at Hartsfield-Jackson Atlanta International Airport (ATL). Concessionaires shall furnish their contractors with these Standards during their pricing phase. It is the responsibility of the Concessionaire to ensure that their contractor and sub- contractors comply with these standards.

### 2.0 SCOPE

These Standards apply to all Airport Concessionaires (Leaseholders, Vendors, Contractors, and Sub- Contractors).

### 3.0 GENERAL CONDITIONS

- A. Concessions Projects: All Concessions projects shall be constructed in accordance with the DOA/P&D stamped accepted documents.
- B. Construction Oversight: DOA Concessions shall be responsible for construction oversight of all Concessions work. P&D's Facilities Construction Team ("FCT") may also conduct construction oversight in coordination with DOA Concessions.
- C. Construction Coordination: All planned and active construction activities shall be reported by the Concessionaire's Contractor on a weekly, bi-weekly or monthly basis coordination meeting to be established by DOA Concessions.
- D. Concessions Construction Standards: All Concessions construction projects shall comply with all the requirements of these Standards. Failure to comply may result in suspension of work by DOA Concessions, FCT, Office of Buildings, Atlanta Fire Department, Airport Security or Airport Police.
- E. Security Requirements: Concessionaire's contractors and sub-contractors shall conform to all DOA Airport Operation Requirements, including Security, Badging, OCIP Badge and Custom Seals (If required). Contact DOA Security Office at (404) 530-6667 for all Security information and requirements.
- F. Logistics Plan: Concessionaire's contractor shall develop and submit to DOA Concessions a Logistics Plan (as required) to include dumpster locations (dumpster cover required), staging area, ramp vehicle and equipment parking locations, limits of construction, location of temporary barriers and delivery access routes prior to commencement of any construction work.
- G. Safety Plan: Concessionaire's contractor shall submit a project specific Safety Plan to DOA Concessions. The plan shall be approved before any demolition/construction work begins. As part of the Safety Plan, the contractor shall include an emergency Contact List. The Emergency Contact List shall be updated with current information throughout the duration of the project.

- H. Pre-Construction Conference: A Pre-Construction conference scheduled by DOA Concessions shall be held at least seven (7) days prior to commencement of any construction work. No construction work shall commence without a Pre-Construction conference.
  
- I. Notifications: Concessionaire's contractors shall notify DOA Concessions and AATC at least seventy-two (72) hours prior to the start of any construction work and moving of personnel or material onto ATL property. DOA Concessions shall also notify the following entities:
  - 1. FCT@ (404)-382-5500 and Via Email: DOA.facilities@atl.com for all concessions projects.
  - 2. TBI @ (404) 530-2021 for projects in Concourses D South, E and F.
  - 3. DOA Landside Operations @ (404) 530- 2021 for projects in the Domestic Terminal and Concourses T, A, B, C, and D North.
  - 4. Airside Operations @ (404) 530-6620 for all airside ramp projects.
  - 5. AATC @ 404-530-2112 or www.aatc.org
  
- J. Work Hours: Standard DOA approved hours for all Concessions construction work shall be performed between 11:00 PM and 5:00 AM Sunday thru Thursday. Ramp construction work shall be performed between 11:00 PM and 5:00 AM daily. In case(s) of Irregular Operations (IROPS), the hours available to a contractor or sub-contractor shall be subject to change without prior notice. DOA Concessions in coordination with FCT can only authorize daytime work if work is contained inside the approved wall in the construction area/space and if it does not cause excessive noise, dust, use of volatile organic compounds or welding.
  
- K. Permits and Code Compliance: Concessionaire's contractor shall obtain all necessary federal, state, county and city permit and shall comply with all applicable laws, codes and regulations.
  
- L. Insurance: Concessionaire's contractor working on the Airport controlled facilities or property shall be duly licensed and shall provide proof of adequate insurances when requested.
  
- M. Existing Conditions: Concessionaire's contractor shall be responsible for site verification of all existing conditions and requesting as-built data from DOA Concessions. If any utility shall be disturbed or damaged during the construction work, the contractor shall notify DOA Concessions, Atlanta Airlines Terminal Corporation (AATC) and FCT immediately. Concessionaires shall be responsible for all costs associated with the repair or replacement of any damaged utility and affected property.
  
- N. Digging: Before any digging, cutting, drilling or coring is performed, the Concessionaire's contractor shall be responsible for the following:
  - 1. Contacting the Georgia Utilities Protection Center @ 1-800-282-7411 for notification to Owners of all buried utilities before digging.

2. Concessionaire's contractor and sub-contractors shall adhere to the rules, regulations and laws dictated by the Georgia Utilities Protection Center.
  3. Concessionaire's contractor and sub-contractors shall protect all utilities not designated for removal, relocation or replacement during the construction work.
  4. In case(s) of accidental disturbance of utilities, the Concessionaire's contractor/sub-contractor shall immediately notify the utility Owner and DOA Concessions, AATC and FTC.
  5. Responsible for coordinating the repair of the interrupted utility per the timeline and requirements indicated by DOA Concessions and any other matters where the proposed construction may present operational problems to ATL or its Tenants.
- O. Deliveries: Standard DOA approved delivery and debris removal shall only be between 11:30 PM and 5:00 AM

#### 4.0 SPECIAL CONDITIONS

- A. Construction Notice: Concessionaire's contractor shall furnish and install a Document Display device outside the construction barrier wall or door providing the following information:
1. Concessionaire's Name & Contract Information
  2. Contractor's name & Contact Information
  3. DOA Approved Project Start Date
  4. DOA Approved Project Completion Date
  5. DOA Approved Hours of Operation
- B. Support Equipment: Concessionaire's contractor shall request permission and register all support vehicles (cars and trucks) and construction equipment (lifts, forklifts, work boxes, trash dumpsters, etc.) operating on the ATL premises during the construction of a project. The approved vehicles shall always display the operating certificates inside front window. Identification tags shall be always attached to the construction equipment. The operating certificates and identification tags shall be obtained from DOA Landside Operations at (404) 209-4142. Unapproved vehicles and equipment shall be subject to removal by the DOA at the expense of the Concessionaire/Contractor. Any vehicle or piece of equipment parked in a no parking zone, outside the limits of construction, outside previously approved parking locations, or considered a hazard shall be subject to removal by the DOA at the expense of the Concessionaire/Contractor and/or could result in the suspension of all construction work.
- C. Height Restrictions: FAA Regulations regarding the use of cranes and other equipment operating airside or extending above the roof of the building shall be strictly enforced. Concessionaire's contractor shall be responsible for submitting FAA Form 7460 to the DOA for review and approval (contact: [hjaia.7460@atl.com](mailto:hjaia.7460@atl.com)).
- D. Temporary Barriers: Temporary interior and exterior construction wall and/or barrier shall be constructed per DOA/ATL requirements as follows:
1. No plastic "fillable" barriers shall be permitted on the Aircraft Operations Area (AOA).
  2. All interior construction requires a temporary barrier.

3. Temporary barriers shall create a dust barrier and meet one of three conditions: 1) Extend to ceiling/structure above, 2) Extend to a height that shall not allow visibility of work site, 3) Provide a top enclosure to isolate the work site.
  4. All barriers shall be constructed of a standard stud wall with finished drywall, painted, painted and/or graphics, cove base and trim.
  5. All barriers shall be maintained in good condition throughout the entire project.
  6. Barriers shall not expose non-construction personnel to pinch points, slips, trips, falls, or cut hazards.
  7. Barriers shall be installed on a plywood/hardboard base per DOA/ATL requirements to prevent floor damage.
  8. Access doors to the construction areas shall be self-closing, metal type and secured using a Best or equivalent seven-pin type cored locking device operator using green, orange, sand or other construction core as required by the DOA.
  9. Following the project completion, all finishes (project related or adjacent to the project) shall be restored to a DOA acceptable condition.
- E. Construction Area Access: Doors or openings through security barriers or partitions shall be maintain secured 24 hours a day. If the doors or openings are unlocked, properly badge or authorized contractor provided personnel shall maintain doors under continuous control observation.
- F. Tools: Concessionaire's contractor shall maintain a tool inventory list and be responsible for ensuring that all tools and construction materials are fully always secured to prevent passengers or unauthorized persons from gaining access to them beyond Security Check Points and Security Screening Areas or in the Terminal Buildings.
- G. Debris: All debris resulting from the construction work or incidental thereto shall be contained and promptly removed by the Concessionaire's contractor per ATL standards. Immediately upon completion of the construction work, Concessionaire's contractor shall dispose of all debris off ATL property.
- H. Waste Collection and Removal: Concessionaire's contractor and sub-contractors shall be responsible for the collection and removal of construction waste attributable to all Concessions construction projects per ATL Concessions Construction Waste Collection & Removal Standards. Dumpsters shall be labeled in large lettering with a 24-hour contact name and phone number to call in the event there is an issue with debris.
- I. Clean Site: Concessionaire's contractor shall be responsible for maintaining the work site safe, clean and orderly always. Failure to comply, DOA may accomplish the same at Concessionaire's contractor expense and/or suspend all construction until the situation is corrected.
- J. Restoration: Concessionaire's contractor shall be responsible for restoring contiguous areas affected by the construction work to its original condition.
- K. Temporary Construction Facility Privileges: Any temporary construction facility or trailer shall be approved by DOA Concessions before installation. The contractor shall be responsible for maintaining the grounds associated with this privilege. Noncompliance in

maintaining the grounds shall result in loss of this privilege. Approved facilities shall be removed at the completion of the construction project and the premises shall be restore to its original condition.

- L. Protection of Airport Operation Systems: If any portion of Airport operations systems is damage by the Concessionaire's contractor or sub-contractors, or anyone operating under their control or direction. The Concessionaire's contractor or sub-contractors shall immediately notify DOA Concessions and propose both temporary and permanent repairs to restore system functions and return the system to its original condition at no additional cost to the DOA.
- M. Aircraft Ramp Work: Airport Operations shall govern all ramp activities. Construction activities shall not supersede Airport Operations for any reason. When Concessions project construction requires work on the aircraft ramps, Concessionaire's contractor & sub-contractors shall comply with all DOA Specifications, Standards and Criteria.
- N. Operating within Critical Areas: When construction work requires the Concessionaire's contractor and sub-contractors to conduct its operations within areas adjacent to active aircraft gates, taxi lanes, and/or the apron. The work shall be coordinated with DOA Concessions in coordination with FCT. Concessionaire's contractor shall request authorization from DOA Concessions forty-eight (48) hours prior to any gate closure or interference with the Aircraft Operations.
- O. Technical Requirements: Concessionaire's contractor and sub-contractors shall be responsible for complying with the following ATL requirements:
  - 1. Electrical Power: Any unauthorized connection to an airport power source shall be disconnected/de-energized by the Concessionaire's contractor or sub-contractor per the DOA Concessions and FCT direction. Failure to comply, DOA shall disconnect or de-energize at Concessionaire's contractor/sub-contractor expense.
  - 2. Conduit: All conduits shall be concealed from public view.
  - 3. Floor Slab Penetrations: Concessionaire's contractor/sub-contractor shall be responsible for scanning (GPR or X-Ray) and providing DOA with the scan results which shall include a detailed drawing of the area to be core drilled. All floor slabs that require drilling, core drilling, embedding or demolition of any conduit and other utility lines, shall be constructed per the Architectural and Structural Design Standards, Sections 2 & 4 of this manual.
- P. Abandon Penetrations: Concession's contractor/sub-contractor shall be responsible for covering any new, existing or always abandon floor slab penetrations (Floor/Ceiling) during construction. All abandon penetrations shall be filled per the Architectural and Structural Design Standards, Sections 2 & 4 of this manual.
- Q. Access Control and Alarm Monitoring System (SACS/ACAMS)

When these systems are impacted or tie-ins are required by the Concessionaire's construction project, the Concessionaire's contractor/sub-contractor shall be responsible for restoring, maintaining the integrity and be compatible with the existing ATL SACS/ACAMS system. Concessionaire's contractor shall coordinate with and use the existing DOA Operations & Maintenance provider to accomplish this work. All work associated with these systems shall be coordinated through DOA Concessions

and shall be review and approved by DOA Security prior to start of any work. Notice shall be provided to DOA Concessions at least 48 hours prior to disturbing the existing SACS/ACAMS system.

R. Building Management System (BMS)/Fire Suppression and Life Safety Systems

When these systems are impacted or tie-ins are required by the Concessionaire's construction project, the Concessionaire's contractor/sub-contractor shall be responsible for restoring, maintaining the integrity and be compatible with the existing ATL BMS/Fire Suppression and Life Safety Systems. Concessionaire's contractor shall coordinate with and use the existing AATC Operations & Maintenance provider to accomplish this work. All work associated with these systems shall be coordinated through DOA Concessions and AATC prior to start of any work.

S. Environmental Requirements

When construction mitigation work is required, Concessionaire's contractor shall be responsible for complying with ATL Tenant Environmental Compliance Guide (contact DOA Environmental at 404-530-5500 for information). All required project specific mitigation, spill/emergency response and hazardous management plans shall be coordinated through DOA Concessions and shall be review and approve by DOA Environmental prior to start of any mitigation work.

T. Sustainability Standards

The ATL Planning and Development Bureau (P&D) has developed comprehensive Sustainable Construction Standards to apply to all DOA projects to meet City of Atlanta Ordinances, obtain certifications in industry leading Sustainability Rating Systems, and reach airport-wide sustainability goals. P&D requests that construction teams include these Standards in all construction projects where applicable, and to the highest extent possible. The implementation of these Standards is voluntary and in no way a contractual requirement. However, their maximum implementation, should be recognized as best practices, which can also contribute to the airport's overall sustainability goals of reducing energy and water consumption, waste generation, and greenhouse gas emissions.

*The following are the P&D Sustainable Construction Standards for Reference only:*

## Construction Standards Sustainability

### 1.0 Purpose

The P&D Sustainable Construction Standards are General Requirements to be applied to all projects at ATL. These General Conditions are additional guidance to Division 1: Sustainable Requirements, which should be tailored project by project based on the Credits and Prerequisites the project is pursuing for the specified Sustainability Certification.

#### A. PART 1 – GENERAL

##### 1. SUMMARY

- a. Includes general requirements and procedures for compliance with Sustainable Construction Standards.
- b. The Contractor shall adhere to all Sustainable Construction Standards in addition to project specific sustainability requirements included in Section 018111 to meet the intended Sustainability Certification Standard (LEED®, Parksmart®, SITES®, Envision®, etc.).
  - i. Sustainable Construction Progress Reports: Concurrent with each Application for Payment, contractor should, where applicable, submit reports comparing actual construction and purchasing activities with sustainable reports.
  - ii. Contractor shall submit all Project Close-out documentation upon completion of this project to the ATL P&D Sustainability Team Project Manager.
- c. Sustainable Construction Standards Submittal Checklist and Supplemental Documents will be available digitally through the ATL P&D Sustainability Team Project Manager.

##### 2. SUBMITTALS

- a. General: Sustainable Construction Standards submittals are in addition to the other required project submittals.
  - i. All Sustainable Construction Standards submittals shall be submitted by the Contractor Sustainability Coordinator to the ATL P&D Sustainability Team Project Manager for approval in coordination with all documentation specified in SECTION 018111

#### B. DEFINITIONS

1. HJAIA P&D Sustainability Project Manager: Department of Aviation Planning and Development Department Sustainability Program Team member responsible for managing, implementing and enforcing the P&D Sustainability Program through all project phases and coordinating documentation collection for all Submittals found in the HJAIA Sustainable Construction Standards.

2. Contractor Sustainability Coordinator: An approved member of the Construction Team responsible for all Submittals found in the HJAIA Sustainable Construction Standards and all sustainability Submittals included in SECTION 018111.
3. Sustainable Construction Standards Submittal Checklist: A checklist of all Submittals found in the HJAIA Sustainable Construction Standards.

## 2.0 CONSTRUCTION TEAM

### A. SUSTAINABLE CONSTRUCTION TRADES TRAINING

1. Schedule sustainability training with HJAIA P&D Sustainability Team Project Manager for all key construction team members prior to commencement of the construction phase that includes the following concepts:
  - a. Project-specific Sustainability Certification Standards (LEED®, Parksmart®, SITES®, or Envision®) compliance requirements in SECTION 018111.
  - b. Sustainable Construction Standards: provide digital access to all attendees.
  - c. Proactive sustainability: Examples of actions workers can take to be more sustainable while on site, included, but not limited to:
    - i. Energy and Water efficient practices.
    - ii. Recycling and proper use of single stream dumpsters (if in use).

### 2. SUBMITTALS

- a. Agenda for Sustainable Construction Trades Training
- b. Attendee List

### B. CONTRACTOR SUSTAINABILITY COORDINATOR

1. The Contractor shall designate a Sustainability Project Coordinator to manage all Sustainable Construction Standards requirements for this project. The Sustainability Coordinator may be either an employee of contractor or consultant hired for this project.
  - a. The Contractor Sustainability Coordinator shall have a LEED Accredited Professional credential or equivalent green professional credential.
  - b. The designated Contractor Sustainability Coordinator shall be approved by the P&D Sustainability Team Project Manager.
  - c. The Contractor Sustainability Coordinator will be responsible for compiling and submitting all sustainability Submittals and required documentation.
  - d. The Contractor Sustainability Coordinator will submit all submittals and required documentation to the ATL P&D Sustainability Team Project Manager for approval. Sustainability Coordinator to use the provided templates and specified formatting.

- e. The Contractor Sustainability Coordinator will submit required Submittals and documentation concurrent with each Application of Payment.
- f. Reduction of pay application will be equivalent to the value of work not produced and/or completed based on submittal and documentation verification by the ATL P&D Sustainability Team Project Manager.

## 2. SUBMITTALS

- a. Provide proof of LEED Accredited Professional credential or equivalent credential.
- b. Provide proof of Sustainability Contractor experience on LEED or equivalent Sustainability Project experience.

### 3.0 SITE ENVIRONMENTAL MANAGEMENT

#### A. NON-TOXIC LANDSCAPE MAINTENANCE DURING CONSTRUCTION

- 1. If pesticides are used during construction, only use pesticides with a hazard tier ranking of 3 (least hazardous) as per The City of San Francisco Department of the Environment's (SFE) Hazard Tier Review Process.

#### B. SUBMITTALS

- 1. Manufacturer Documentation and MSDS Sheets on all pesticides and fertilizers used on-site.

### 4.0 RESOURCE SELECTION AND PRESERVATION

#### A. CONSTRUCTION TEMPORARY LIGHTING ENERGY EFFICIENCY

- 1. Reduce temporary lighting energy consumption using energy efficient lighting and operation protocol.
  - a. Use LED lighting for all temporary construction lighting.
  - b. Comply with minimum lighting requirements as defined in OSHA Standard 1926.56.
  - c. Establish a schedule for when lighting is required and develop a policy to reduce lighting when not needed.
  - d. Coordinate site walk during each phase of construction for P&D Sustainability Team Project Manager.

#### 2. SUBMITTALS

- a. Provide bulb wattage for all temporary lighting used throughout construction

#### B. POTABLE WATER USE DURING CONSTRUCTION

1. Develop a Construction Water Use and Monitoring Plan to minimize potable water use during construction.
    - a. Identify and list all on-site water uses during construction.
    - b. Identify which uses can be performed utilizing non-potable or reused water.
    - c. Identify possible sources of non-potable water within the HJAIA Campus.
    - d. Monitor and report all potable and non-potable water use on site throughout the duration of the project.
  
  2. SUBMITTALS
    - a. Construction Water Use and Re-Use Log Template to be provided electronically.
- C. CONSTRUCTION AND DEMOLITION WASTE DIVERSION
1. Divert a minimum of 90% of construction and demolition waste from landfills.
    - a. Establish waste diversion goals for the project by identifying at least five materials (both structural and nonstructural) targeted for diversion. Approximate a percentage of the overall project waste that these materials represent.
    - b. Specify that at least 5 material waste streams will be collected and diverted separately
    - c. Reuse material on site whenever possible.
    - d. Work with project manager to enter waste diversion information into a waste tracking platform such as RE-TRAC CONNECT®.
    - e. Follow LEED Reference Manual for Building Design and Construction version 4: Construction and Demolition Waste Management credit language, regardless of project type.
  
  2. SUBMITTALS
    - a. Waste Tickets from haulers and waste management companies
    - b. Calculations on reuse in accordance with LEED Reference Manual for Building Design and Construction version 4: Construction and Demolition Waste Management Credit.
    - c. LEED Reference Manual for Building Design and Construction version 4: Construction and Demolition Waste Management Credit Required Documentation.

## 5.0 CONSTRUCTION VEHICLES AND EQUIPMENT

## A. CONSTRUCTION VEHICLES AND EQUIPMENT GENERAL REQUIREMENTS

1. Construction shall not proceed until the contractor submits a list of all diesel on-road vehicles, non-road construction equipment, and generators to be used on-site to be confirmed by the P&D Sustainability Program Implementation Team. The list shall include the following:
  - a. Contractor and subcontractor name and address, including a contact person responsible for vehicles and/or equipment.
  - b. Equipment type, equipment manufacturer, equipment serial number, engine manufacturer, engine model year, engine certification (Environmental Protection Agency (EPA) Tier Emission rating), horsepower, engine family number, engine serial number, and expected fuel usage and hours of operation.
  - c. For any emission control technology installed: technology type, serial number, make, model, manufacturer, EPA/ California Air Resources Board (CARB) verification number, Tier level, installation date and hour-meter reading on installation date.
2. If the contractor subsequently needs to bring equipment on-site not on the list approved by the P&D Sustainability Team, the contractor shall submit written notification within 24 hours that attests the equipment complies with all contract conditions and provide information requested in 5A1
3. All diesel equipment shall comply with the pertinent local, state, and federal regulations relative to exhaust emission controls safety, or the requirements of this document, whichever is more stringent at the time of construction.
4. The contractor shall establish generator sites and truck-staging zones for vehicles waiting to load or unload materials on-site, when possible. Such zones shall be located where exhausted air pollutants have least impact on adjacent properties, the public, and surrounding structures' air intake systems.

## B. CONSTRUCTION VEHICLE AND EQUIPMENT MAINTENANCE

1. Contractor shall designate an area for vehicle maintenance. Do not perform construction vehicle and equipment maintenance and repairs outside of designated areas.
  - a. When possible, conduct maintenance activities under cover.
  - b. Maintain a log of all vehicle repairs and maintenance.
  - c. Ensure that hazardous wastes are recycled and/or disposed safely per local, state and federal regulations.
  - d. Create a Spill Response Plan for cleanup of chemical, fuel or oil spills.
  - e. When available, use environmentally friendly chemicals and processes.

## 2. SUBMITTALS

- a. Prior to construction, submit The Spill Response Plan.
- b. At the end of the project or upon request, submit a log of maintenance and repairs conducted on construction vehicles used during construction.

### C. ROADWAY PRESERVATION DURING CONSTRUCTION

1. Ensure all surrounding roadways used by the project site are not damaged by construction activity.
  - a. Any existing road weight limit restrictions limit must be followed by construction-related vehicles operating on airport and public roadways.
  - b. Equipment with tractor treads is prohibited on public roadways.
  - c. Immediately report all Incidents and Accidents to ensure roadway is preserved, and if damaged, is repaired within a reasonable timeframe.

#### 2. SUBMITTALS

- a. Prior to construction, submit a list of construction vehicles operating on public roadways and the maximum load it could possibly transport.
- b. Prior to construction, submit a written policy that will be used to communicate that equipment with tractor treads shall not be driven on airport or public roadways.
- c. Immediately submit Accident and Incident reports (if applicable).

### D. CONSTRUCTION VEHICLE IDLING PLAN

1. Implement a Vehicle Idling Inspection Program and document findings or results.
  - a. During periods of inactivity, idling of diesel on-road vehicles and non-road equipment shall be minimized and shall not exceed fifteen consecutive minutes.
  - b. Post signage for no vehicle idling in sensitive areas, such as areas within 100 feet of building air-intake systems.

#### 2. SUBMITTALS

- a. Prior to construction, submit an inventory of vehicles using alternative idle reduction technologies.
- b. At the end of the project and upon request, vehicle Anti Idling Program inspection logs.
- c. Prior to construction, submit a site plan that identifies areas where signage will be installed communicating idling expectations.
- d. Prior to construction, provide a sample of Anti-Idling signage detail to be used in sensitive areas.

#### 3. EXEMPTIONS

- a. See: Part 5 EXEMPTIONS D - I

#### E. LOW EMISSION ON-ROAD CONSTRUCTION VEHICLES

1. All on-road construction vehicles on site for more than 10 total days must have either engines that meet EPA 2010 on-road emission standards (TIER 4) or (2) emission control technology verified by the EPA or the CARB to meet the EPA 2010 on-road emission standards (TIER 4), such as Selective Catalytic Reduction (SCR) systems, to reduce Nitrogen Oxide (NOx) emissions.
  - a. Develop an inventory of construction vehicles, which includes vehicle type, horsepower rating, fuel type, and overall fuel usage during each phase of construction. In addition, on- road vehicle records should show official registrations, manufacturer, model and model-year.
  - b. The contractor is encouraged to use alternative fuels to further reduce NOx emissions including zero NOx technology (i.e., Electric) or near zero NOx technology (i.e., natural gas or propane) when reasonably available.
2. Upon confirming that the diesel on-road construction vehicle meets one of the criteria in 5.5: A., ATL will issue a compliance sticker.
  - a. All equipment on site shall display the compliance sticker in a visible, external location as designated by ATL.
3. SUBMITTALS
  - a. Prior to construction, submit an inventory of vehicles that will be used for each phase of construction. Submit updates as needed.
    - i. All information included in 5.5 A.: Data for on-road construction vehicles
    - ii. Written confirmation from the contractor that only on-road construction vehicles meeting EPA TIER 4 NOx emission levels will be used for the construction project unless otherwise exempt.
4. EXEMPTIONS
  - a. See: PART 5 EXEMPTIONS A-C

#### F. LOW EMISSION NON-ROAD CONSTRUCTION EQUIPMENT

1. All non-road construction equipment on-site for more than 10 total days must have either engines meeting EPA Tier 3 non-road emission standards or (2) repowered engines meeting EPA Tier 3 non-road emission standards or (3) emission control technology verified by EPA of CARB for use with non-road engines to reduce NOx emissions.
  - a. Develop an inventory of non-road construction equipment include type, horsepower rating, fuel type, fuel usage and hours of operation during each phase of construction. The contractor shall maintain records of manufacturer, model and model-year of equipment.
  - b. The contractor is encouraged to use alternative fuels to further reduce NOx emissions including zero NOx technology (i.e., Electric) or near zero NOx technology (i.e., natural gas or propane) when reasonably available.

2. Upon confirming that the diesel non-road construction equipment has met one of the criteria in 5.6: A, ATL will issue a compliance sticker.
  - a. All equipment on site shall display the compliance sticker in a visible, external location as designated by ATL.

### 3. SUBMITTALS

- a. Prior to construction, submit an inventory of non-road construction equipment that will be used for each phase of construction. Submit updates as needed.
  - i. All information included in 5.6 A.: Data for non-road construction equipment.
  - ii. Written confirmation from the contractor that only non-road construction equipment meeting at least EPA TIER 3 NOx emission levels will be used for the construction project unless otherwise exempt.
- b. At the end of the project and upon request, submit a log of maintenance and repairs conducted on all construction equipment used during construction.

### 4. EXEMPTIONS

- a. See: PART 5 EXEMPTIONS A-C

## G. LOW EMISSION PORTABLE DIESEL GENERATORS

1. All portable diesel generators on site for more than 10 total days must have either (1) engines meeting at least the EPA Tier 2 non-road emission standards or (2) repowered engines meeting EPA Tier 2 non-road emission standards or (3) emission control technology verified by EPA or CARB for use with non-road engines to reduce NOx emissions.
  - a. Develop an inventory of portable diesel generators, which includes type, horsepower rating, fuel type, fuel usage and hours of operation during each phase of construction. The contractor shall maintain records of manufacturer, model and model-year of equipment.
  - b. The contractor is encouraged to use electricity from the power grid as an alternative to portable diesel generators when reasonably available to further reduce localized NOx emissions.

### 2. SUBMITTALS

- a. Prior to construction, submit an inventory of all portable diesel generators that will be used during construction and a plan that identifies portions of the project that may be reasonably completed using the electric grid power as an alternative to diesel generators. Submit updates as needed.
  - i. All information included in 5-G-1.: Data for portable diesel generators
  - ii. Written confirmation from the contractor that only diesel generators meeting at least EPA TIER 2 NOx emission levels will be used for the construction project unless otherwise exempt.

### 3. EXEMPTIONS

- a. See 6.0 EXEMPTIONS A - C

## 6.0 EXEMPTIONS

### A. APPLIES TO: 5E, 5F, and 5G

If the contractor can prove to ATL's satisfaction that for a particular class of on-road diesel vehicle, diesel non-road construction equipment, or diesel generator, that (1) no alternative equipment with the specified TIER level is available, (2) it is not technically feasible to meet the control level specified above with a verified device, or (3) installing the control device would create a safety hazard or impair visibility for the operator, then the contractor may, with ATL's written approval, drop down to a lower level of Tier rating. For any approved lower level-Tier equipment, the contractor shall provide a plan describing step to minimize NOx emissions whenever a forecast projects the Air Quality Index will exceeding 100 for Atlanta. <https://airgeorgia.org>

### B. APPLIES TO: 5E, 5F, and 5G

ATL may create an exemption when there is a compelling emergency need to use diesel vehicles or engines that do not meet the contract conditions for emissions controls. An example would be the need to rescue vehicles or other equipment to prevent or remedy harm to human beings or nearby property. Meeting contract deadlines, failure to rent equipment in a timely manner, planned unavailability, or lack of advance planning are not considered compelling emergencies.

### C. APPLIES TO: 5E, 5F, and 5G

ATL may provide an exemption lasting no more than 30 days to a contractor, if the contractor can prove with valid documentation and to ATL's satisfaction that the appropriate emission control equipment has been ordered in a timely manner after the bid was awarded but has yet to be installed due to delays attributable to the equipment manufacturer and beyond control of the contractor. The contractor must install the retrofit as soon as practicable once it has been delivered and shall submit proof thereof when installation is complete. Provided, however, that such exemption shall not be available to a contractor who already owns an equivalent piece of equipment that meets the engine requirements for the project, as the contractor may use that piece of equipment.

### D. APPLIES TO: 5D

When an on-road diesel vehicle or non-road construction equipment is forced to remain motionless because of traffic conditions or mechanical difficulties over which the operator has no control.

### E. APPLIES TO: 5D

To bring the on-road diesel vehicle, non-road construction equipment, or generator to the manufacturer's recommended operating temperature.

### F. APPLIES TO: 5D

When there are regulations requiring temperature control for driver or passenger comfort and there are no auxiliary power sources available to provide temperature control.

G. APPLIES TO: 5D

When it is necessary to operate auxiliary equipment located in or on the diesel vehicle or construction equipment, to accomplish the intended use of the vehicle or equipment (for example, cranes and cement mixers).

H. APPLIES TO: 5D

When the on-road diesel vehicle, non-road construction equipment, or generator is being repaired, if idling is necessary for such a repair.

I. APPLIES TO: 5D

When the on-road diesel vehicle, non-road construction equipment, or generator is queued for inspection, if idling is necessary for such inspection.