

GEORGIA DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL PERMIT FOR USE OF EXPLOSIVES
Utility Permit No. _____

Application is hereby made by _____
(Utility)

for permission to use explosives in the process of installing the utility facilities authorized in the above referenced
Permit approved by the Department on _____
(Date)

Blasting will be performed at _____
(Specific Location)

Applicant agrees to comply with the following Special Provision's:

- 1. All blasting under this permit shall be performed in accordance with the attached Blasting Operation Procedures.

The person named therein as being in responsible charge will be present at the blasting site at all times when explosives are at the site or in use.

- 2. Liability insurance in the amount of \$ _____ will be provided by the Applicant or other person or agency performing blasting under this permit.

- 3. The Department's representative: _____
(Name)

(Address and Telephone)

will be notified at least 24 hours in advance of any blasting under this permit.

- 4. No explosive materials shall be stored on the right-of-way at any time except in quantities to be used during a single day's operation. No overnight storage shall be permitted.
- 5. The Utility, his contractor, or other persons performing work under this permit shall exercise the utmost care not to endanger life or property, and shall obey all State, Federal and other governmental regulations applying to transportation, storage, use and control of explosives.
- 6. The Utility, his contractor, or other persons performing work under this permit shall notify each utility owner having structures or other installations, above or below ground, near the site of the work of his intent to use explosives. Such notice shall be given sufficiently in advance to enable the utility owners to take such steps as they deem necessary to protect their property from injury.
- 7. Traffic signing and control shall comply with the current edition of the Manual on Uniform Traffic Control Devices.
- 8. Traffic (is) (is not) to be stopped within 500 feet of the site when blasting is in progress.
- 9. Any damage which occurs to the roadway/right-of-way as a result of blasting shall be immediately corrected by the Utility, his contractor, or other persons performing work under this permit and may be cause for suspension of further blasting.
- 10. Any tunnel liners in place before blasting begins shall be grouted up to the point where explosives are to be used before the use of such explosive.
- 11. Deviations from the provisions of this Permit and the attached Blasting Operation Procedures shall not be allowed without prior approval of the Department.

Permit Requested this _____ day of _____, 20____

Utility

GEORGIA DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED:

District Engineer

State Materials & Research Engineer

PERMIT GRANTED for use of explosives at the Specific Location described above in accordance with plans and Blasting Operation Procedures attached hereto.

This _____ day of _____, 20____

State Utilities Engineer

Attachment To:

Permit No. _____

BLASTING OPERATION PROCEDURES

Person to be in responsible charge of work at all times when blasting is in progress:

_____ (Name) _____ (Title and Address)

Qualifications: _____
(Training, Experience, Etc.)

References from recent work: _____
(Name and Address)

Other consultants or experts to be used: _____

Type of explosive materials and equipment to be used: _____

Approximate duration of blasting work: _____

Estimated frequency and number of detonations required: _____

Estimated depth of material to be removed with each detonation: _____

Minimum vertical distance from top of proposed tunnel to roadway surface: _____

Source of supply of explosives: _____

Method of transport to job site: _____

Provisions for storage: _____

Special procedures and precautions to be followed: _____

Georgia Department of Transportation
Blast Plan Submittal

Project: _____ DOT Project Number: _____
 Prime Contractor: _____ Contractor Contact : _____

Blast Number: _____ Submittal Date: _____
 Blast Location: _____ Project Station / Offset: _____

Blast Design

Mass • Trench • Tunnel • Shaft • Demolition • Material: _____
 Holes: _____ Diameter: _____ Depth: _____ Burden/ Spacing: _____
 Surface Dimensions: _____ Overburden: _____ Groundwater: _____

Explosives

Product	lbs/hole	total lbs	Powder Factor: _____ pounds / cubic yard
_____	_____	_____	Stemming: _____ minimum depth
_____	_____	_____	Deck separation: _____ minimum depth
_____	_____	_____	Matting type and/or depth: _____

Initiation System

Manufacturer: _____ Type: _____
 Delay(s): in hole _____ Delay in & between rows _____
 Maximum holes / 8ms delay _____ Maximum pounds / 8ms delay _____

Vibration Control

	Identify	Distance	Scaled Distance	Monitor (Y/N)
Nearest Building	_____	_____	_____	_____
Nearest roadway structure	_____	_____	_____	_____
Nearest utilities	_____	_____	_____	_____
Pre-Blast surveys	_____	_____	_____	_____
	_____	_____	_____	_____
Vibration Consultant:	_____			

Blasting Contractor: _____ Phone: _____
 Blaster: _____ GA #: _____ Signature: _____

The locations, distances, and conditions referenced in the blast plan have been verified by site inspection.

DOT Project Engineer: _____ Date: _____
 Signature: _____ Phone: _____

This form is required for use on all Georgia Department of Transportation projects and must be completed in its entirety and submitted to the DOT's project engineer. Failure to provide all necessary information may cause delay in the approval process. See the attached instructions for specific guidelines and for additional materials required.

Instructions for completing Georgia DOT blast plans

Blasting plans requiring approval by the Georgia Department of Transportation must be presented on the attached form. The following are explanations of some of the items required that may not be obvious. Where not indicated, terminology and calculations should follow those shown in the ISEE Blaster's Handbook.

1. Project is the actual name shown on DOT plans and specifications.
2. DOT Project Number is either a contract number or the utility permit number.
3. Blast Number is provided for the contractor's convenience and is usually sequential.
4. Blast Location is the physical description of the blast site.
5. Material should describe the density and competence (hard, fractured, weathered, etc).
6. Surface Dimensions are used to compute the volume of material in the shot.
7. Groundwater is the anticipated depth to water from the ground surface at the time of loading.
8. Explosives lbs/Hole may be a range if holes are loaded differently.
9. Powder Factor is the amount of explosive used per unit of rock.
10. Stemming is the inert material placed in the upper portion of the blast hole.
11. Vibration Control Distances are direct as measured from the closest blast hole.
12. Scaled Distance should be calculated based on the maximum charge weight per delay used in the blast. Additional information should be submitted if loading is varied to control vibration.
13. Monitor (Y/N) should be marked to indicate if seismic monitoring will be provided at this location.
14. Pre-Blast Surveys provided by the contractor(s) should be listed.
15. Vibration Consultant is the expert employed by the contractor for surveys and/or monitoring.
16. The form must be signed by the blaster who will be on site during the loading and blasting.

In addition to the form, the blaster or contractor needs to supply the following attachments.

1. A plan view showing the orientation of adjacent "vibration control" structures and utilities.
2. A profile view showing blast hole loading.
3. A diagram showing the delay and initiation sequence.
4. The blast log and seismic records from previous blasts in the proposed work area.
5. A safety plan and traffic plan.

All blasting operations must conform to the requirements of the project specifications and appropriate regulatory guidelines. Vibration will be limited to levels established in the Georgia Blasting Standards Act and Georgia's Blasting Rules and Regulations for Explosives and Blasting Agents. No drilling or loading will be allowed until blast plan approval is issued by the department.