



City of Durham Fire Department
Fire Prevention Division
 2008 E. Club Blvd.
 Durham, NC 27704
 Office (919) 560-4233
 Fax (919) 560-4256
www.durhamfd.org

BLASTING PERMIT APPLICATION

In accordance with the provisions of the North Carolina State Fire Prevention Code, a blasting permit must be obtained before a person is authorized to do any blasting or to use any explosive for the purpose of demolishing a structure or blasting out rock, gravel, earth, trees, or any other substance or material.

All information must be complete before the processing of a blasting permit application will proceed. This permit application and supporting documentation must be submitted via email to DFDInspect@durhamnc.gov in advance of planned blasting operations.

1. Subject Property

Location / Name		GPS #1	
		GPS #2	
GPS Format	DDD	DMS	DMM

2. Applicant (Person or Firm Responsible for Blasting Operations)

Name		Title	
Blaster's Name			
Company Name			
Address			
City		State	
Daytime Telephone:	() -	Fax:	() -
Emergency Telephone:	() -		

3. Property Owner

Name	
Address:	
City	
Daytime Telephone:	() -
	Fax: () -

4. Contractor

Name	_____	Title	_____
Company Name	_____		
Address	_____		
City	_____	State	_____
Daytime Telephone:	() -	Fax:	() -
Emergency Telephone:	() -		

5. Permit Type (Fees apply to each jurisdiction and may differ)

60 Day Permit

6. Project Description

Estimated Start Date	_____	Estimated End of Blasting	_____
Describe the project and why blasting is a necessary part of the project:			

7. Submission Requirements

This application shall be accompanied by the following information, unless otherwise specifically modified by the Fire Marshal or his designee a minimum of **(3)** days prior to first blast:

- A legible sketch, Google Earth photo, or map of the entire blast site showing distances to any nearby buildings, streets, utilities, wells, and other facilities. ****Must Submit with application****
- For a full description of all submission information needed see the attached Blasting permit requirements checklist.
- A blasting plan to include a description of the proposed blasting procedures, an estimate of the total number of cubic yards of material to be removed by blasting, an estimate of the number of blasts to be detonated, the quantity and type of explosives to be used, the maximum amount of explosives per delay, the maximum number of holes per delay, and the proposed placement of seismographs. (Delay shall mean a period of eight milliseconds or greater.). ****This Blasting Plan must be submitted before the first blast takes place if not submitted with the application****
- A safety plan to include traffic control, barricading, signage plan, and adverse weather operation plan must be up to date and on file with our Office.
- Will explosives be stored on site? (see checklist requirements if so)
- Any other studies or information deemed necessary by the Fire official, which may include, but is not limited to:
 1. A pre-blast assessment, prepared by a geotechnical engineer or other blasting professional, which would assess the potential for damage to adjacent structures and facilities.

2. A pre-blast inspection of all structures and facilities located within 750 feet of the proposed blast location. As part of the inspection, the structures and facilities would be videotaped and/or digitally photographed to document any pre-existing damage so that any claims for post-blast damages could be compared to the pre-blast inspection report. A complete pre-blast report shall be submitted with this documentation for a permit.

8. Liability Insurance Required

Before a permit is issued, the Applicant must file with the jurisdiction a corporate surety bond in the principal sum of \$1,000,000 or a public liability insurance policy for the same amount, for the purpose of the payment of all damages to persons or property which arise from, or are caused by, the conduct of any act authorized by the permit upon which any judicial judgment results. The Fire Code Official is authorized to specify a greater or lesser amount when, in his or her opinion, conditions at the location of use indicate a greater or lesser amount is required. Government entities shall be exempt from this bond requirement. The insurance policy shall state, "For blasting operations. The policy shall name the City of Durham and any Sub-Contractors as an additional insured.

9. Permit Conditions

- a. Any blasting permit may be revoked for (1) failure to comply with the provisions of the State and local codes; (2) failure to comply with any of the provisions of this permit; or (3) for any other cause if the Fire Official determines that the continuance of the permit is not consistent with the provisions of the Code. A stop order may be issued for seismic readings above the limits of NFPA 495, and for failure to comply with conditions of the permit. Such stop work order will be issued to the blasting permit representative and shall state conditions before blasting resumes.
- b. This permit shall not be transferable whether by operation of law or otherwise, either from one location to another or from one person to another.
- c. All blasting operations shall be covered in such manner as to prevent fragments of rock, gravel, earth, trees, or other substances or materials from being thrown against or upon lots, buildings, utility lines, or any street or highway. Blasting mats shall be provided and in use if blasting is conducted within 750 ft. of structures or roadways.
- d. Whenever blasting is being conducted in the vicinity of gas, electric, water, fire alarm, telephone, telegraph, or steam utilities, the blaster shall notify the appropriate representative of such utilities at least 24 hours in advance of blasting specifying the location and intended time of such blasting.
- e. Hours of detonation shall be limited to daylight hours, no earlier than 8:00 a.m. or later than 4:30 p.m., Monday through Friday, except by special exception specifically authorized by the Fire Official. Blasting shall also be prohibited on all City of Durham, State and Federal holidays.
- f. Water is a precious resource and measures shall be taken to protect ground water quality as found in the nearest well within 500 feet of the blasting location. Post blast testing shall be done no sooner than 24 hours or no later than 48 hours following a blast. Turbidity in wells tested shall be no greater than that which existed prior to the blasting as established in the pre-blast assessment.

Additional Conditions:

10. Record Keeping

Persons responsible for blasting operations shall maintain a record of each blast. A copy of that record shall be filed with the Fire Official within twenty-four hours of each blast. All original blasting records shall be retained by the persons responsible for the blasting operations for at least three years following the cessation of the blasting operations and shall be available for inspection by the Fire Official. The blasting records shall contain the following minimum data:

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1. Name of the person responsible for the blasting operation
 2. Location, date, and time of blast
 3. Name of the blaster in charge
 4. Type of material blasted
 5. Number of holes, burden, and spacing
 6. Diameter and depth of holes
 7. Types of explosives used
 8. Amount of explosives used
 9. Maximum amount of explosives per delay period of eight milliseconds or greater
 10. Maximum number of holes per delay period of eight milliseconds or greater
 11. Method of firing and type of circuit
 12. Weather conditions (including factors such as wind direction, cloud cover, etc.)
 13. Height or length of stemming
 14. Were mats or other types of protection used
 15. Type of detonators used and delay periods used
 16. Seismograph and airblast readings when measured, and from where measured
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11. Permit Approval

The Fire Code Official will deliver the permit via email to the Contractor once final approval is given to conduct blasting operations. Any failure to provide the requested information and documentation may lead to a delay in processing and issuance of a permit.

12. Certification and Signature

I hereby certify that I have read and examined this application and its attachments and that all of the information contained therein is true and correct. Furthermore, I certify that the proposed blasting operations will fully comply with the requirements contained in The North Carolina State Fire Prevention Code and NFPA 495. I agree to indemnify, save harmless, and defend the City of Durham, its agents and employees, from all claims, damages, costs, expenses, and charges, including attorney's fees, which arise out of or by reason of these blasting operations.

 Applicant Company

By: _____

Date: / / _____

 Property Owner's Signature

Date: / / _____

Blasting Permit Requirements Checklist

<input type="checkbox"/>	Complete and submit the attached permit application and supporting documentation Minimum (3) Days prior to first blast. An initial blast inspection will be required at the time of permit issuance.
<input type="checkbox"/>	Request a blasting permit site inspection by visiting www.durhamfd.org or call (919) 560-4233.
<input type="checkbox"/>	Pay all applicable permit fees in advance of the site inspection.
<input type="checkbox"/>	A 750 ft. blasting perimeter will be required under any of the following conditions. <ol style="list-style-type: none"> 1. Blasting that occurs in multiple jurisdictions. 2. Multiple blasting companies on a site and/or subdivision. 3. Right-of-way, roadway infrastructure improvements. <p>Blasting company representative shall provide GPS coordinates for each proposed blast site. A site blasting map will be issued with the permit indicating the 750 ft. blasting perimeter. (Blasting operations outside this permitted perimeter will result in a stop work order and revocation of permit(s))</p>
<input type="checkbox"/>	Current certificate of liability insurance on file. (Additional insured names City of Durham)
<input type="checkbox"/>	Provide a copy of blasting certifications, ATF licenses, and blaster resumes with a photo ID. Annual records on file with the Fire Marshal's Office for each blaster are acceptable.
<input type="checkbox"/>	Each permit and site plan on site at all times during blasting operations.
<input type="checkbox"/>	Provide a copy of any pre-blast surveys.
<input type="checkbox"/>	All initial blasts for permitting requires witness by a Fire Official.
<input type="checkbox"/>	Blasting mats provided and in use if within 750 ft. of structures/roadways.
<input type="checkbox"/>	A safety plan to include traffic control, barricading, signage plan, and adverse weather operation plan must be on file with the Fire Marshal's Office.
<input type="checkbox"/>	Proper notification made to utility companies.
<input type="checkbox"/>	Are explosive materials stored on site? (If yes, This will require additional permitting and from the Fire Official)