



Blasting Plan

for

Buchmyer Pools

Near 1515 Hilton Avenue, Dover Township, York County, Penn. 17315

Date: June 27th, 2023

Prepared By: Maine Drilling & Blasting, Inc.

**Mid Atlantic Division
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Ian Gabig

Field Engineer

Name

Title

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General

Maine Drilling & Blasting, Inc. considers safety as the priority during all phases of blasting operations. We are knowledgeable of and will follow all local, state and federal regulations related to transportation and use of explosives. The project specifications and conditions have been reviewed. Details of procedures for pre-blast surveys, explosives use, blast security, monitoring and documentation are enclosed.

Pre-Blast Surveys / Notifications

Pre-blast surveys will be offered to all property owners within a 250 foot radius of the blast site. Appropriate notices will be given to property owners and appointments arranged for those owners who desire a survey. Pre-blast surveys will be conducted by an MD&B Company Representative. Results of those surveys will be documented through video or still photographs and appropriate narration or written reports. Post-blast surveys will be conducted on same properties once blasting is completed.

Utility owners in vicinity of blast shall be notified at least 24 hours in advance of blasting activity, unless emergency situation arises.

Blast Monitoring

All blasts will be monitored by a representative of Maine Drilling & Blasting, Inc. who has been properly trained in the setup and use of seismic monitoring equipment. At least one seismograph will be in use at all times. Placement of monitoring equipment will be at the nearest structure to the blast site. Maine Drilling & Blasting, Inc. monitoring equipment will consist of Instantel and White type seismographs. Details are enclosed. Results of blast monitoring will typically be available before the next blast, usually immediately following a blast. Results can be reviewed and modifications can be made to the blast design for the next blast if necessary.

Sequence of Blasting

All blasting operations will be strictly coordinated with BN Excavating, neighboring utility owners, and Dover Township. Emphasis will be on the safe and efficient removal of the rock existing on this project without impact to surrounding structures. Blasts will be developed so as to create adequate relief which will minimize ground vibrations and offer the greatest protection possible to the surrounding structures

Blasting Procedures

1. Blasting operations shall be conducted only between Sunrise and Sunset.
2. Blasting cannot be conducted at times different from those announced in the blasting schedule except in emergency situations: such as electrical storms, or if the public safety requires unscheduled detonation.
3. Warning and all-clear signals shall be given of different character that are audible within one-quarter mile of the blast zone. All persons within the permit area shall be notified of the meaning of the signals through appropriate instructions and signs posted around the active blast zone.
4. The Blaster in Charge will shout "Fire in the hole" immediately before initiating the blast.
5. Access to blasting area shall be regulated to protect the public from the effects of blasting. Access to the blasting area shall be controlled through personnel and blast warning signage to prevent unauthorized entry before each blast and until the perimeter's authorized representative has determined that no unusual circumstances exist after the blast. Access to and travel in or through the area can then safely resume.
6. No drilling or machinery unrelated to blasting is permitted within 50 feet of loading operations.

7. Activities or items not related to explosives loading are not permitted within the blast area.
8. Charged holes that are awaiting firing shall be guarded, barricaded and posted, or flagged against unauthorized entry.
9. Drill holes will be checked for depth, water, collapse, or other hazardous conditions prior to loading.
10. Blasting caps shall be kept separate from boosters until ready to be loaded into hole.
11. Contractor will be responsible to ensure all buildings and vehicles near blast zone are evacuated.
12. Contractor will help facilitate and ensure that all moveable objects have been relocated a safe distance away from the blast zone during blasting operations as directed by the Blaster in Charge.
13. All blasts shall be made in the direction of the stress relieved face previously marked out or previously blasted.
14. All stemming shall be clean, dry 3/8" crushed stone, and only non-sparking stem rods will be used.
15. Blasting mats shall be used as necessary and under the supervision of the Blaster in Charge.
16. Blasting caps and wires will be inspected prior to blast for damage or loose connections.
17. The Blaster in Charge shall ensure that extra safety and judgment is exercised to prevent the simultaneous blasting of multiple holes.
18. The Blaster in Charge or his designee will inspect that all charges have fired.
19. After the all clear whistle is blown, the Contractor will excavate or dig ventilation pits in the blasted rock to mitigate potential carbon monoxide migration.

Blasting Mats

Blasting mats and backfill will be used to control rock movement when blasting in close proximity to structures. Placement and number of mats are typically determined by the blaster. Mats will be placed to protect all people and structures on, or surrounding the blast site and property. Rubber tire type blasting mats will be utilized on this project and will be approximately 12' x 24' in size; Rubber mat @ 12' x 24' 38 lbs./s.f. = 10,944 lbs./ea.

Blast Security and Warning Whistles

Each blast will be preceded by a security check of the blast zone and then a series of warning whistles. Communications will be made with job site supervisors and local officials as required to ensure the safest possible operation. All personnel in the vicinity closest to the blast area will be warned. The warning whistles will follow the following sequence:

3 Audible Signal Pulses - 5 Minutes to Blast

2 Audible Signal Pulses - 1 Minute to Blast

1 Audible Signal Pulses - All Clear

No blast will be fired until the blast zone has been secured and determined safe. Following the blast, the area will be examined by the blaster prior to the all clear signal to determine that it is safe to resume work.

Explosives

All explosives will be delivered to the job site on a daily basis. Overnight storage will be at a licensed and secure magazine site, and not on the job site. Explosive storage shall adhere to local and state regulations. Only the amount of explosives required to perform the day's work will be brought to the site, any extra will be removed at the end of the work day. All explosives will be stored in approved magazines when not in use. All explosives on site will be accounted for by the Blaster in Charge at all times, and any loss, theft, or unauthorized entry to blast zone or temporary explosive storage area shall be reported immediately to the proper authorities.

Technical Data sheets and Material Safety Data Sheets for the explosive products proposed for use on this project are attached.

Explosive initiation sources will be Non-Electric or Electronic only, Maine Drilling & Blasting WILL NOT employ the use of Electric blasting caps.

Blaster Qualifications

All Maine Drilling & Blasting, Inc. blasters on this job will be licensed in the Commonwealth of Pennsylvania and have received proper training in the safe use and handling of explosives. Additionally, Maine Drilling & Blasting, Inc. blasters are familiar with all OSHA Regulations, State Regulations, and Federal Regulations regarding construction site safety. Blasters shall be in adequate physical and mental condition to perform the required tasks. Evidence of training, competency, and licenses can be provided upon request.

Weekly safety meetings will be held on site by the Maine Drilling & Blasting, Inc. job foreman, and a record of the meeting will be returned to the Maine Drilling & Blasting, Inc. office.

Blasting Personnel

All blasting operations shall be conducted by experienced, trained and competent persons who understand the hazards involved and possess ATF Clearances. Persons working with explosive materials shall:

1. Have demonstrated a knowledge and a willingness to comply with safety and security requirements.
2. Be capable of using mature judgment in all situations.
3. Be of good physical condition and not addicted to intoxicants, narcotics, or similar types of drugs.
4. Have the ability to understand and give written and verbal commands.
5. Possess current knowledge of the local, State and Federal laws and regulations applicable to his work.
6. Have obtained a Certificate of Competency or a License as required by State law.
7. Be knowledgeable of all regulations regarding fire protection and distance restrictions on open flames and smoking near explosives.
8. Be aware of where fire extinguishers are located in company vehicles.
9. Wear all necessary protective equipment and complete a daily pre-task assessment (see attached sample showing necessary protective equipment).

Licenses and Permits

Maine Drilling & Blasting, Inc. is fully licensed and insured for the transportation, use, and handling of explosives. Evidence of insurance is available. Blasting permits from the local authorities will be applied for as required by the Maine Drilling & Blasting, Inc. Blaster/Foreman when blasting is about to begin.

Handling, Transportation, Use of Explosives

All explosives will be delivered to the job site on a daily basis and transported following applicable federal, state, and local laws and regulations. Vehicles will be safe and reliable for on-site transportation and have proper placards affixed. The delivery vehicle and associated explosives will be attended by an authorized person of explosive delivery company or MD&B at all times. Only the amount of explosives required to perform the day's work will be brought to the site. All explosives will be stored in approved magazines when not in use. Only people authorized by the Maine Drilling & Blasting will receive explosive deliveries and keep accurate records of inventory.

Handling of explosives on site will be limited to qualified personnel of MD&B, which is governed by ATF regulations, proof of qualification can be provided as necessary.

No open flames, sparks, spark producing material, or smoking will be permitted within blast zone or within 50ft of explosive transport vehicles. All MD&B vehicles have appropriate fire extinguishers inside, however; employees know to not fight fires involving explosive material.

Explosives will be used in accordance with the technical specifications and manufacturer's recommendations of the product.

Blast Vibration

Blast vibration will be monitored at the blast site, typically at the structure(s) closest to the blast site. Vibration limits will closely follow industry limits as well as the State and Local Regulations. Blast designs will be modified as required to stay within the guidelines and to meet project schedules. Blasting design will be modified accordingly when approaching buildings and utilities by adjusting the amount of explosive charge per hole and per delay, as well as adjusting the hole pattern and using blasting mats. Preliminary vibration calculations based on known distances to the structures of concern and anticipated initial blast design can be provided upon request.

Ground vibration peak particle velocity limits shall not exceed USBM Alternative Blasting Criteria

- * US Bureau of Mines (USBM) RI 8507 Appendix B
- * Standard and applicable State Regulations

Airblast overpressure level will not exceed 128 peak dB (linear) two Hertz high -pass system.

Blast Reports

Enclosed is a sample of a Maine Drilling & Blasting, Inc. Blast Report. This report will be filled out for each blast and sent to our office within 24 hours of blasting. Copies will be supplied to Township officials.

Typical Blast Design

Typical blast designs for this project can be provided as necessary. Modifications are usually made following the first blasts to meet control and seismic considerations. Maine Drilling and Blasting will blast no closer than 25ft from an existing structure or utility.

Appendix

1. Project Map
2. Institute of Makers of Explosives; Blasting Best Practices
3. Fly-Rock Prevention Plan
4. Misfire Prevention Guidelines
5. Blasting Whistle Details
6. MDB Daily Pre Task Safety Analysis
7. Bureau of Alcohol, Tobacco, Firearms, and Explosives: Explosives
Manufacturing License
8. Certificate of Insurance
9. Pennsylvania Dept. of Environmental Protection Blasting Activity Permit
10. Blaster Licenses
11. Sample Blast Report
12. Material Safety Data Sheets

Project Map



Institute of Makers of Explosives;
Blasting Best Practices



Blasting; Best Practices

The potential to impact surface or groundwater with the substances used in commercial explosives can be controlled through the implementation of certain measures. Implementing such measures as part of a standard operating procedure will eliminate or minimize the potential for these substances to dissolve in or become associated with water. The specific measures included can be grouped into the following four (4) basic categories:

1. Education/Training of Explosive Users
2. Selection of Appropriate Explosives for the Job and Conditions
3. Explosives Loading and Handling
4. Attention to Technical Matters

1. Education/Training of Explosive Users

Both the owners/operators of the location where explosives are being used and the personnel working with commercial explosives should be well informed of all applicable regulations as well as any potential consequences associated with the products' exposure to water. The federal Clean Water Act, or the equivalent state statute, regulates the release of substances, in particular those that can cause an undue risk to human health or the environment. In addition, the Resource Conservation and Recovery Act, governs the disposal of hazardous wastes.

2. Selection of Appropriate Explosive for the Job and Conditions

Selecting the proper explosive for the particular job is critical to the prevention of surface or groundwater impact.

- ANFO (ammonium nitrate - fuel oil) is not water-resistant and should be avoided if contact with water is likely.
- Various types of commercial explosives are available to withstand exposure to water. Water-resistant explosives include the cartridge forms of gelatinous nitroglycerin, watergels and emulsions and the bulk forms of emulsions which are: 1) Site Mixed Emulsion (ammonium nitrate - fuel oil - emulsifier) is a water-resistant explosive, semi-solid. This is manufactured on site and detonated while still warm assuring complete detonation. 2) Repump Emulsion (ammonium nitrate - fuel oil - emulsifier) is a water-resistant explosive, semi solid, manufactured off site, transported and pumped into the borehole as needed.

3. Explosives Loading and Handling

- All excess product in augers or hoses is to be recovered and used either in the next blasthole or recycled in the mixer/holding tank.
- Explosive spillage around the blasthole collar is to be controlled and any such spillage should be placed into the blasthole before stemming
- Water contacting explosives during cleanup is to be contained and managed in accordance with applicable regulations
- Minimize the amount of time that explosives are exposed to wet conditions within the blasthole. The blast should be initiated as near the time the loading is completed as safety and operational procedures allow.
- Avoid having explosives exposed to precipitation.
- To assure complete detonation of explosives placed into the ground, a sufficient number of boosters must be used.

4. Attention to Technical Matters

- The actual physical conditions into which explosives are being placed must be taken into account.
- Personnel responsible for loading explosives into the boreholes should be in continuous communication with the drillers of those boreholes or supplied with adequate drill logs, so that any knowledge regarding fractures, crevices or cavities is obtained.
- Where Bulk ANFO or Emulsion is used in fractured, creviced or cavitied boreholes, plastic borehole sleeves and/or positioned inert stemming decks will be used to ensure total detonation of the explosives and avoidance of excessive charges.
- Choosing and placing the correct drilling patterns that results in the optimal use of explosives with all the explosives undergoing complete detonation.
- Quality assurance/quality control measures to maintain drilling accuracy that prevents the detonation in one blasthole from impacting the proper detonation in a nearby blasthole.
- Selecting the appropriate drilling equipment so that adequate borehole quality is maintained.
- Where appropriate to ensure complete detonation, two (2) primers will be used in each blasthole; one near the top and one near the bottom of the explosive column.
- Correct selection of delay timing for each blasthole to ensure detonation of the entire pattern, and the prevention of cut-off blastholes.

Fly-Rock Prevention Plan

Fly Rock Prevention Guidelines

Planning

1. It must be clearly established who the (BIC) is and then clearly communicated to the entire crew.
2. The BIC must clearly communicate what the responsibilities are for each crew member.
3. BIC must understand the abilities of the crew. Trainees must be trained and supervised on all job functions, (assign a trainer).
4. Through the use of the Job Hazard Analysis the crew must become familiar with the blast environment and clearly identify all hazards on and around the job site.
5. The BIC must communicate with the drill operators and other blasters with experience to fully understand the geology on site.
6. The blast design must take into consideration all the relevant parameters, blast geometry, hazards, type of products, timing and type and amount of cover in use.
7. All pre-blast calculations must be done prior to the blast and adjusted should conditions change on the site or drilling conditions dictate a modification of the plan. Powder factor should be determined prior to loading the first hole.
8. Each blast should be designed according to the direction of least danger.
9. Start each project with a conservatively designed test blast that will not only provide information on the geology but will provide relief for the next shot.
10. When location or conditions on the job site change consider your next blast as a test blast. Document your blast plan and have it reaffirmed.
11. Request hold harmless on shots that may cause damage or takes unnecessary risks.

Drilling

12. Carefully monitor and record hole depths, amount of overburden, and any drill hole anomalies with light colored crayons on the cones or another effective method (Hole Sheets).
13. Use flashlights attached to tapes to determine straightness of holes. If deviation is even slightly suspected, have holes bore tracked.
14. Arrange for Laser Profiling and Bore Tracking for high wall faces with exposures to property.

Loading the Shot

15. Have hole sheets and timing patterns on paper before loading.
16. Profile all faces before loading front row of holes.
17. Have blaster-in-charge load first and second rows of holes.
18. When using pourable (Bulk or ANFO):
 - a. Have an appropriate plan to deal with seams, voids, faces, and overloaded holes.
 - b. Make the appropriate design modifications for the use of bulk.

making it happen

- c. Keep the increased hazards in mind.
- 19. Take the time necessary to work safely and do not take shortcuts, or unnecessary risks. (DO NOT RUSH!)
- 20. Know the exact amount of burden on the face and load and cover accordingly, if face is bermed and you're uncertain of face location, excavate to find the face and then reberm.
- 21. Utilize berms for faces as appropriate.
- 22. If questioning the necessity to or the amount of cover, add cover.
- 23. Know the exact amount of overburden over the rock and load and cover accordingly.
- 24. Use offsets properly.
- 25. Train the blast crew on proper stemming techniques, what stemming anomalies may look like, why, and how to report them.
- 26. Monitor the stemming to make certain that all holes are properly stemmed.
- 27. Use only appropriate crushed stone and non-sparking stemming rods to compact the stone in each hole.
- 28. Pay attention when using bulk as it can coat the sides of the hole reducing the effectiveness of the stemming.
- 29. BIC must walk the shot twice and check power, double-up on power and down hole caps when necessary (critical shots).
- 30. Ensure 100% safe detonation! Misfires can be a source for flyrock. Follow all Misfire Prevention Guidelines!
- 31. If there is a remote possibility of fly rock from a blast, take the necessary additional precautions.
- 32. Never make assumptions. If unfamiliar with the situation; figure it out, then get another opinion to confirm your decision.
- 33. Always communicate with supervisors when safety issues are compromised.

Site Security

- 34. Secure loading area before, during, and after loading.
- 35. Have a thorough, written Blast Zone Security Plan:
 - a. Design an over cautious plan.
 - b. Communicate the plan with our crew, the Contractor and his crew.
 - c. Have all blast guards use hand-held radios on the same frequency or another acceptable means of communication.
- 36. Secure the blast zone by removing people from the blast area (especially keeping them away from the face of the blast) and have them stay at an overly safe distance behind the blast and put them under cover.
- 37. Blaster must have proper cover.
- 38. Execute the Blast Zone Security plan to the "T".

Misfire Prevention Guidelines

PREVENTION OF MISFIRES

General Guidelines 3 20 15

Commit to preventing misfires

Teach the right procedures for a “Clinical Hook Up”

Fix it, don’t walk by a mess

Shot Design Nonelectric

1. Ensure shot design allows for complete full activated system timing or in cases of larger shots appropriate advancement of the initiation sequence.
2. Document timing before loading the shot
3. Ensure that the shock tube will be the adequate length

Shot Design Electronic

4. A “road map” of the shot **MUST** be committed to paper.
5. All hole locations and timing **MUST** be part of the road map.
6. Any problems, anomalies or deviations from the original plan **MUST** be documented.
7. Ensure all equipment is functional and fully charged prior to the start of the shot.
8. Verify the design matches **EXACTLY** to what is “on the ground”, on the road map and what shows in the equipment. Account for **ALL** detonators.
9. Follow all established protocols for use of electronic detonators in all applications, particularly in decking situations.
10. When using mats test the shot after each mat is set.

Loading

11. Eliminate **ALL** distractions
12. Do not compromise the integrity of the shock tube or wires
13. Use caution when using a loading pole or stemming rod as they can damage shock tube or wires
14. Do not allow your powder knife to swing unless the blade is protected
15. Do not open detonator boxes with a knife
16. Re-prime any hole where you have used a powder retriever
17. Re-prime any hole where separation is suspected

Hook Ups

18. Plan roles and responsibilities
19. Eliminate **ALL** distractions
20. Use proper hookup procedures
21. “Taping” or an equally effective tool is to be used to aid with connections and neatness of shock tube.

Blasting Whistle Details



WoodsCan Hornet

Rechargeable Electric Air Horn

The world's most advanced portable signaling device for industrial and commercial safety

I have been using the WoodsCan blasting horn on a daily basis for urban and downtown blasting procedures since it was first introduced. Never would I want to go back to an aerosol device. With the in-truck quick charge, I have never yet been in a position where my signal warning device fails to work. In my line of work this is imperative. Every blaster that I come in contact with either has one or wants one...they work!

Bruce Rowell - Western Grater Contracting, Ltd.



Reliable

- A consistent 120+ decibels of sound
- Reliable even in cold weather
- Improves crew productivity over disposable compressed gas air horns

Safe

- No frostbite from leaking gas cans
- No more explosion risks in hot weather
- Transportable on an airplane

Cost Effective

- Pays for itself within a few months
- Save hundreds the first year alone
- Save more each year thereafter

Go Green

- No more metal cans to dispose of
- No more tetrafluoroethane (potent greenhouse gas) discharged into the atmosphere
- Ozone friendly

MDB Daily Pre Task Safety Analysis

DAILY PRE TASK ANALYSIS

*I pledge responsibility for my own safety, and the safety of others around me.
I will not look the other way and/or walk by anything unsafe, ever.*



Date: _____

Job Name: _____

Job Number: _____

Weather: _____

Scope of Work: _____

WORK ACTIVITY:

HAZARDS OF ACTIVITIES:

CREW (Signature):

CREW (Print):

Prepared by: _____

Blaster in charge: _____

Other Blasters: _____

EYE & FACE <input checked="" type="checkbox"/> Safety Glasses <input type="checkbox"/> Full Faceshield <input type="checkbox"/> Other	FOOT Hard Toe Boots HH Class E Hard Hat	FALL RESTRAINT Harness <i>if > 6' drop.</i> Lanyard Rope & Grap
HAND GLOVES Nitrile or Latex Cut-Resistant Other	Hearing <input checked="" type="checkbox"/> Ear Plugs <input checked="" type="checkbox"/> Ear Muffs Other	RESPIRATORY PROTECTION <input type="checkbox"/> Natural &/or Mechanical <input type="checkbox"/> Dust Mask <input type="checkbox"/> Half Face Filter

ABOVE THE LINE ACTIONS TO ACHIEVE SAFETY & RESULTS :

Role & Responsibilities:

Bureau of Alcohol, Tobacco, Firearms,
and Explosives: Explosives
Manufacturing License

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF Correspondence To ATF - Chief, FELC 244 Needy Road Martinsburg, WV 25405-9431	License/Permit Number 8-PA-107-20-4B-02325
Chief, Federal Explosives Licensing Center (FELC) <i>Mama Howard</i>	Expiration Date February 1, 2024

Name
MAINE DRILLING & BLASTING INC

Premises Address (Changes? Notify the FELC at least 10 days before the move.)
**2700 WEST CENTER STREET
TREMONT, PA 17981-**

Type of License or Permit
20-MANUFACTURER OF EXPLOSIVES

Purchasing Certification Statement
The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

Mailing Address (Changes? Notify the FELC of any changes.)
MAINE DRILLING & BLASTING INC
88 GOLD LEDGE AVENUE
AUBURN, NH 03032-

<i>[Signature]</i> Licensee/Permittee Responsible Person Signature	<i>RCM</i> Position/Title
<i>Michael Seber</i> Printed Name	<i>12/28/2021</i> Date

Previous Edition is Obsolete
MAINE DRILLING & BLASTING INC:2700 WEST CENTER STREET:17981:8-PA-107-20-4B-02325:February 1, 2024:20-MANUFACTURER OF EXPLOSIVES
ATF Form 5400.14/5400.15 Part I
Revised September 2011

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free Telephone Number: (877) 283-3352 Fax Number: (304) 616-4401 E-mail: FELC@atf.gov	ATF Homepage: www.atf.gov
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Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. **(The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)**

Right of Succession (27 CFR 555.59). (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee; and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

(Continued on reverse side)

Cut Here ✂

Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: **MAINE DRILLING & BLASTING INC**

Business Name:

License/Permit Number: **8-PA-107-20-4B-02325**

License/Permit Type: **20-MANUFACTURER OF EXPLOSIVES**

Expiration: **February 1, 2024**

Please Note: Not Valid for the Sale or Other Disposition of Explosives.

WARNINGS

1. As provided in Title XI of the Organized Crime Control Act of 1970 (U.S.C. § 842(i)), it is unlawful for any person who (1) is under indictment for, or has been convicted in any court of, a crime punishable by imprisonment for a term exceeding 1 year, (2) is a fugitive from justice, (3) is an unlawful user of, or addicted to any controlled substance (*as defined in section 102 of the Controlled Substances Act (21 U.S.C. 802)*), (4) has been adjudicated as a mental defective or has been committed to a mental institution, to ship, transport, or receive any explosive materials in interstate or foreign commerce, (5) is an alien, other than an alien who is lawfully admitted for permanent residence (*as that term is defined in section 101(a)(20) of the Immigration and Naturalization Act*), or meets any other exception under section 842(i)(5), (6) has been discharged from the armed forces under dishonorable conditions, or (7) having been a citizen of the United States, has renounced the citizenship of that person.
2. **Federal Regulation 27 CFR 555.53** - Licensees and permits issued under this part are not transferable to another person. In the event of the lease, sale, or other transfer of the business or operations covered by the license or permit, the successor must obtain the license or permit required by this part before commencing business or operations.
3. **Alteration or Changes to the License or Permit.** Alterations or changes in the original license or permit or in duplications thereof violates 18 U.S.C. 1001, an offense punishable by imprisonment for not more than 5 years and/or a fine of not more than \$250,000.

NOTICES

1. Any change in trade name or control of this business or operations **MUST** be reported within 30 days of the change to the Chief, Federal Explosives Licensing Center (FELC), 244 Needy Road, Martinsburg, WV 25405-9431. (27 CFR 555.56-555.57). A licensee or permittee who reports a Change of Control must, upon expiration of the license or permit, file an ATF Form 5400.13/5400.16.
2. Under § 555.46, Renewal of License/Permit, if a licensee or permittee intends to continue the business or operations described on a license or permit issued under this part during any portion of the ensuing year, the licensee or permittee shall, unless otherwise notified in writing by the Chief, FELC, execute and file with ATF prior to the expiration of the license or permit an application for a license or permit renewal, ATF Form 5400.14/5400.15 Part III, in accordance with the instructions on the form, and the required fee. In the event the licensee or permittee does not timely file an ATF Form 5400.14/5400.15 Part III, the licensee or permittee must file an ATF Form 5400.13/5400.16 as required by § 555.45, and obtain the required license or permit before continuing business or operations. A renewal application will automatically be mailed by ATF to the "mailing address" on the license or permit approximately 60 days prior to the expiration date of the license or permit. If the application is not received 30 days prior to the expiration date, the licensee or permittee should contact the FELC.
Note: The user-limited permits are not renewable.
3. This license or permit is conditional upon compliance by you with the Clean Water Act (33 U.S.C. § 1341(a)).
4. THIS LICENSE OR PERMIT MUST BE POSTED AND KEPT AVAILABLE FOR INSPECTION (27 CFR 555.101).

ATF Form 5400.14/5400.15 Part I
Revised October 2011

Federal Explosives License (FEL) Customer Service Information

(Continued from front)

Discontinuance of Business (27 CFR 555.61)(27 CFR 555.128). Where an explosives materials business or operations is succeeded by a new licensee or permittee, the records prescribed by this subpart shall appropriately reflect such facts and shall be delivered to the successor, or may be, within 30 days following business discontinuance, delivered to the ATF Out-of-Business Records Center, 244 Needy Road, Martinsburg, WV 25405, or to any ATF office in the division in which the business was located. Where discontinuance of the business is absolute, the records shall be delivered within 30 days following the business discontinuance to the ATF Out-of-Business Records Center, 244 Needy Road, Martinsburg, WV 25405, or to any ATF office in the division in which the business was located.

Explosive materials must be stored in conformance with requirements set forth in 27 CFR, Part 55. It is unlawful for any person to store any explosive materials in a manner not in conformity with these regulations.

**TO REPORT LOST OR STOLEN EXPLOSIVES, YOU MUST IMMEDIATELY NOTIFY ATF:
CALL TOLL FREE - (888) ATF-BOMB**

✂ Cut Here

Federal Explosives Licensing Center (FELC) 244 Needy Road Martinsburg, WV 25405-9431	Toll-free number: (877) 283-3352 Fax number: (304) 616-4401 E-mail: FELC@atf.gov
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ATF Hotline Numbers

Arson Hotline: 1-888-ATF-FIRE (1-888-283-3473)
Bomb Hotline: 1-888-ATF-BOMB (1-888-283-2662)
Report Illegal Firearms Activity: 1-800-ATF-GUNS (1-800-283-4867)
Firearms Theft Hotline: 1-888-930-9275
Report Stolen, Hijacked or Seized Cigarettes: 1-800-659-6242
Other Criminal Activity: 1-888-ATF-TIPS (1-888-283-8477)

Certificate of Insurance



Blasting; Best Practices

The potential to impact surface or groundwater with the substances used in commercial explosives can be controlled through the implementation of certain measures. Implementing such measures as part of a standard operating procedure will eliminate or minimize the potential for these substances to dissolve in or become associated with water. The specific measures included can be grouped into the following four (4) basic categories:

1. Education/Training of Explosive Users
2. Selection of Appropriate Explosives for the Job and Conditions
3. Explosives Loading and Handling
4. Attention to Technical Matters

1. Education/Training of Explosive Users

Both the owners/operators of the location where explosives are being used and the personnel working with commercial explosives should be well informed of all applicable regulations as well as any potential consequences associated with the products' exposure to water. The federal Clean Water Act, or the equivalent state statute, regulates the release of substances, in particular those that can cause an undue risk to human health or the environment. In addition, the Resource Conservation and Recovery Act, governs the disposal of hazardous wastes.

2. Selection of Appropriate Explosive for the Job and Conditions

Selecting the proper explosive for the particular job is critical to the prevention of surface or groundwater impact.

- ANFO (ammonium nitrate - fuel oil) is not water-resistant and should be avoided if contact with water is likely.
- Various types of commercial explosives are available to withstand exposure to water. Water-resistant explosives include the cartridge forms of gelatinous nitroglycerin, watergels and emulsions and the bulk forms of emulsions which are: 1) Site Mixed Emulsion (ammonium nitrate - fuel oil - emulsifier) is a water-resistant explosive, semi-solid. This is manufactured on site and detonated while still warm assuring complete detonation. 2) Repump Emulsion (ammonium nitrate - fuel oil - emulsifier) is a water-resistant explosive, semi solid, manufactured off site, transported and pumped into the borehole as needed.

3. Explosives Loading and Handling

- All excess product in augers or hoses is to be recovered and used either in the next blasthole or recycled in the mixer/holding tank.
- Explosive spillage around the blasthole collar is to be controlled and any such spillage should be placed into the blasthole before stemming
- Water contacting explosives during cleanup is to be contained and managed in accordance with applicable regulations
- Minimize the amount of time that explosives are exposed to wet conditions within the blasthole. The blast should be initiated as near the time the loading is completed as safety and operational procedures allow.
- Avoid having explosives exposed to precipitation.
- To assure complete detonation of explosives placed into the ground, a sufficient number of boosters must be used.

4. Attention to Technical Matters

- The actual physical conditions into which explosives are being placed must be taken into account.
- Personnel responsible for loading explosives into the boreholes should be in continuous communication with the drillers of those boreholes or supplied with adequate drill logs, so that any knowledge regarding fractures, crevices or cavities is obtained.
- Where Bulk ANFO or Emulsion is used in fractured, creviced or cavitied boreholes, plastic borehole sleeves and/or positioned inert stemming decks will be used to ensure total detonation of the explosives and avoidance of excessive charges.
- Choosing and placing the correct drilling patterns that results in the optimal use of explosives with all the explosives undergoing complete detonation.
- Quality assurance/quality control measures to maintain drilling accuracy that prevents the detonation in one blasthole from impacting the proper detonation in a nearby blasthole.
- Selecting the appropriate drilling equipment so that adequate borehole quality is maintained.
- Where appropriate to ensure complete detonation, two (2) primers will be used in each blasthole; one near the top and one near the bottom of the explosive column.
- Correct selection of delay timing for each blasthole to ensure detonation of the entire pattern, and the prevention of cut-off blastholes.

Pennsylvania Dept. of Environmental
Protection Blasting Activity Permit



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING AND RECLAMATION

Blasting Activity Permit

67234104

Project

Name/Description:

BUCHMYER POOLS

Purpose for Blasting:

Pool/Pond

If Other, please describe:

Applicant

MAINE DRILLING & BLASTING INC (Client 76967)

PO BOX 1140

GARDINER, ME 04345-1140

ATF License No.:

8-PA-107-20-4B-02325

Type of Business:

OTHER OTHER (NON-GOVERNMENT)

Contact Information

Contact Name:

JON NEITHERCOAT

Title:

DIVISION MANAGER

Telephone:

717-571-7746

Email:

JNEITHERCOAT@MDANDB.COM

Blasting Contractor Information

Is the Applicant the Blasting Contractor? YES

Duration and Times of Blasting

Blasting Activity End Date:

06/23/2024

Anticipated days of the week and times when blasting may occur

Days:

MON thru SAT

Time:

SUNRISE AM thru SUNSET PM

Location of Blasting Activity

Primary County:

YORK COUNTY

Primary Municipality:

DOVER TWP

Second County:

Second Municipality:

Third County:

Third Municipality:

Latitude:

39° 59' 45.9"

Longitude:

76° 48' 35.83"

Dwellings, Structures and Utilities

Indicate distance and direction (in degrees) to the nearest building, neither owned nor leased by the permittee, from the area where blasting will occur.

Distance (in feet):

50

Direction (in degrees):

185

Indicate the method that will be employed to satisfy the monitoring requirements of Chapter 211 Subchapter G (relating to monitoring requirements).

Monitoring Method:

Seismograph

Will blasting be conducted within 200' of a buried or underground utility line or utility line making contact with the surface of the ground?

Within 200' of Utility Line:

YES

Will blasting be conducted within 800' of any public road?

Within 800' of Public Road:

YES

Precautions taken to protect the public:

BLASTS WILL BE CONTROLLED WITH BLASTING MATS OR SUFFICIENT NATURAL EARTH OVERBURDEN. TRAFFIC WILL BE CLEAR ON HILTON AVE, IMPERIAL DR, AND OAKLEY DR DURING BLASTS.

Blast Loading Plan 1 (§§211.124(a)(15),(c)(6))

	Hole DIA.	MAX # HOLES	MAX # ROWS	BURDEN		SPACING		HOLE DEPTH		STEMMING	
				MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	TYPE
A	3	400	20	4	8	4	8	8	20	5	CLEAN CRUSHED STONE
B	3.5	400	20	4	8	4	10	9	20	6	CLEAN CRUSHED STONE

Maximum explosives weight per delay (less than 8ms): 250

Minimum Scaled Distance:

20

Method of blast initiation:

Electric ☐ Non-Electric ☒ Other ☐

Explain other:

Comments

A	TYPICAL MASS PATTERN WILL BE 6X7 AT 11FT DEEP, TYPICAL TRENCH PATTERN WILL BE 5X7 AT 11FT DEEP. MAX POWDER FACTOR IS 2.0 FOR MASS AND 4.0 FOR TRENCH.
B	TYPICAL MASS PATTERN WILL BE 7X7 AT 11FT DEEP, TYPICAL TRENCH PATTERN WILL BE 5X8 AT 11FT DEEP. MAX POWDER FACTOR IS 2.0 FOR MASS AND 4.0 FOR TRENCH.

Permit(s) to Purchase Explosives

Purchase Permit 1:

10526

Purchase Permit 2:

10539

Permit(s) to Store Explosives

Will explosives be stored within the proposed blasting activity area? NO

Comments

File Attachments

Insurance Certificate

DEP COI 2023.pdf

[View](#)

Location Map

Buckmyer Pools Location.jpg

[View](#)

Other (ATF LICENSE)

ATF License.pdf

[View](#)

Other (TYPES OF EXPLOSIVES)

MDB Types of Explosives.docx

[View](#)

Prepared By

Licensed Blaster Name:

Jon Neithercoat

Blaster License Number:

BL-9093

Submitted Date:

06/23/2023

Blaster Licenses

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION



BLASTER'S LICENSE

BL-8114

EXPIRES: 8/31/2025

16 HILLSIDE DR
NEWMANSTOWN PA 17073-9264

THOMAS J SNYDER

IS AUTHORIZED FOR THE FOLLOWING:

Trenching & Construction

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION



BLASTER'S LICENSE

BL-2793

EXPIRES: 8/31/2024

1042 BEECH ST
PALMYRA PA 17078-9148

JAMES R ZIEGLER

IS AUTHORIZED FOR THE FOLLOWING:

General Blasting Trenching & Construction

Sample Blast Report

Job#	_____	Cust. PO#	N/A	
Date	_____	Cust. Supt. Name	0	
Customer Name	_____	Pick Tkts#	0	N/A
Job Address	_____	N/A	N/A	N/A
		N/A	N/A	N/A

State	_____	Permit No.	_____	Identify Hazards
Pre Shift Insp.Time (24hrs) :	12:00:00 PM			0
Post Shift Insp.Time (24hrs):	12:00:00 AM			

Blaster :	_____	Precautions Taken:
License #:	_____	0
Signature:		

	Weather Comments:
	0

No. of Crew Members	0		
Crew Members Names :			
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Seismograph Monitoring Plan (Not to Scale):

Shot # 0 Shot Time (24hrs) 0:00 Shot VideoTaped: N

Weather

Notes:

N/A

Weather Conditions: N/A

Temp (°F): 0-0

Wind Direction: North

Wind Spd: 0-0 MPH

Preblast

Blast Direction: North Max Holes/Delay: 1 Predicted K Factor: 1
 Blast Location: 0 Scale Dist.: 1.00
 Location of Structure: 0 Max Weight/Delay: 1 Lbs Predicted PPV: 1.00
 Measurement Physical Dist. to Closest (Ft) Structure 1 Railroad/Highway N/A Overhead Util N/A Underground Util N/A
 Measurement

Pay Quantities

Fire Detail # of Hrs: N/A
 Pay Running Length 0 Feet
 N/A N/A N/A
 N/A N/A N/A

Pay Calculations Notes

0

Shot Info

Configuration

1 - Trench

Total Drill Depth(Ft)	<u>1.00</u>	Total SqFt	<u>1.00</u>	Powder	<u>N/A</u>	Lbs/Cyd	Total Product Weight (Lbs) :	<u>N/A</u>
Total Tons	<u>N/A</u>	Total Yards	<u>0.04</u>	Factor	<u>N/A</u>	Cyd/Lbs	Avg Weight / Hole (Lbs):	<u>N/A</u>
Cal Method	Pattern							
# Holes	<u>1</u>	Cover Used/No	<u>N/A</u>					
	AVG	Min	Max					
Drill Depth	<u>1</u>	<u>1</u>	<u>1</u>	Stone Weight	<u>N/A</u>	/Cyd	Top Stemming	<u>1</u> Min <u>1</u> Max
Burden(Feet)	<u>1</u> Feet	<u>1</u>	<u>1</u>	Type of Terrian	<u>Flat</u>		Charges/Hole	<u>1</u> Min <u>1</u> Max
Spacing (Feet)	<u>1</u> Feet	<u>1</u>	<u>1</u>	Type of Rock	<u>Shale</u>		Deck Stemming	<u>N/A</u> Min <u>N/A</u> Max
Hole Diameter	<u>1</u>	<u>1</u>	<u>1</u>	Stemming Type	<u>3/8" Crushed Stone</u>		Charge Wgt/Deck	<u>1</u> Min <u>1</u> Max
OverBurden (Ft)	<u>1</u>	<u>1</u>	<u>1</u>	Height of Face	<u>0</u>		Depth of Water	<u>0</u> Min <u>0</u> Max
Control Row Taped	<u>N</u>			Angled Holes /Face Bermed	<u>N/N</u>		Laser/BoreTracking	<u>N</u>

Total Pounds 0 Lbs

Type Of Initiation: Non-Electric

Descripton: Example

Elevation	Feet
Brench (ft)	N/A
Floor (ft)	N/A
Overburden (ft)	0
Sub Drilling(ft)	0
Total Depth (ft)	N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Descripton: Example

Elevation	Feet
Brench (ft)	N/A
Floor (ft)	N/A
Overburden (ft)	0
Sub Drilling(ft)	0
Total Depth (ft)	N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Seismograhs

Operator Name	Location of Seis	Seis #	Monitor Log Status	Actual PPV	Actual PPV Freq,	Actual db	Actual Dist. (ft)	Actual K Factor
Walsh;Ryan W	0	7447	Triggered	N/A	N/A	N/A	1	N/A