



Shenandoah County

Department of Fire and Rescue

600 N. Main Street, Suite 109
Woodstock, VA 22664

(540) 459-6167 voice
(540) 459-6192 fax

APPLICATION FOR DISPLAY OF AERIAL FIREWORKS INSTRUCTIONS

All information must be printed in ink or type d.

Submit two (2) copies of this application and all its attachments to the Fire Marshal not less than 15 days prior to the event for timely processing.

Line 1. Provide the name of the person or company applying for a permit.

Line 2. List the telephone number where the applicant may be reached.

Line 3. Use the mailing address the applicant can expect the quickest service.

Line 4. What is the physical address (location) of the permit applicant if it's different from the mailing address given.

Line 5. List the city, state and zip code for the complete mailing address.

Line 6. If a company is filling out an application, write in the Federal Identification Number as provided by the IRS for the company applying for the permit. If a company is not filling out an application, disregard and go to Question #7.

Line 7. Print the name of the person submitting the application with their driver's license number and the state of license issuance.

Line 8. This application is for an Aerial Fireworks Display permit. Applications for an activity that requires a permit must be accompanied by the appropriate information allowing for an open line of communication between the Fire Marshal's Office and the applicant.

Line 8.1. Provide the name of the sponsoring group, person or organization.

Line 8.2. Provide the name and telephone number of the sponsor's representative.

Line 8.3. The exact location of the display is to be listed. Include as much information as may be available such as street address, intersection, City, County or Town. A map would be desirable to augment the written information.

Line 9. Provide the date and anticipated time for the display. If multiple dates are planned, list the additional dates and time on a separate sheet. Label or indicate at the top of the additional sheet that it's an additional sheet for line #9.

Line 9.1. If there is a planned *rain date*, provide the information requested. If a rain date is not scheduled, write N/A in the place indicated for date and time.

Line 9.2. Indicate the anticipated arrival time of the display shells on-site. The Fire Marshal may want to inspect to ensure the shells are not left unattended subsequent to arrival at the display site and/or the condition of the shells.

Line 10. The Fire Prevention Code restricts underage persons from being operators and assistants.

Line 10.1. Provide the name and age of the operator that is in charge of the design, setup and functioning of the display. The operator must be at least 21 years of age.

Lines 10.2 and 10.3. List any qualifications or credentials the operator is willing to offer towards proof of being a qualified operator along with an accounting of actual experience in the number of shows within a given period of time on line 10.3. If additional space is needed for line 10.2, attach an additional sheet (not to exceed the standard 8 1/2 by 11 inch dimension) to the application and label or indicate at the top of the attached sheet that it's an additional sheet for line # 10.2.

Line 10.3.1. List the requested information as a reference.

Line 10.4. List the names and ages of all assistants that will be present. All assistants must be at least 18 years of age.

If additional space is needed for line 10.4, attach an additional sheet (not to exceed the standard 8 1/2 by 11 inch dimension) to the application and label or indicate at the top of the attached sheet that it's an additional sheet for line # 10.4.

- Line 11. List, according to size, the number and type of shells to be fired. List separately the number and size of salutes and multi-break shells. A separate listing for the number and size for chained shells (such as in a finale) is desired. If additional space is needed for line #11, attach an additional sheet (not to exceed the standard 8 1/2 by 11 inch dimension) to the application and label or indicate at the top of the attached sheet that it's an additional sheet for line # 11.
- Line 11.1. Indicate whether the display will be fired electrically, manually, or by a combination of both. Additional information will be requested further into this application as it relates to electric fire.
- Line 11.2. Indicate whether there will be any reloading during the display. Additional information will be requested further into this application as it relates to reloads.
- Line 11.3. Indicate what the mortars will be constructed of. Additional information will be requested further into this application as it relates to the materials and construction of the mortars.
- Line 12. Additional items are to be attached as part of the application for permit. Placing a check in the boxes provided is a means for the applicant to determine or track for themselves they have obtained or possess the required information, and have attached it to the application.
- Line 12.1. A diagram is to be provided of the premises where the display will be fired. The diagram is not required to be to scale but it is to indicate certain requirements as indicated on lines 12.1.1 through 12.1.5.
- Line 12.1.1. Based on the largest shell to be fired, indicate the distance in feet of the fallout radius.
- Line 12.1.2. Within the diagramed radius, indicate where the shells and/or cakes are to be positioned and fired.
- Line 12.1.3. Indicate the distance (in feet) the audience will be restrained from the display.
- Line 12.1.4. Indicate the relative position and distance of significant buildings, highways, and overhead obstructions (e.g., utilities, light poles, etc.).
- Line 12.2. Proof of insurance or surety bond is required in an amount that is agreeable to the sponsor listed on Line 8.1 and the permit applicant, but shall not be less than \$500,000.00 The proof of insurance or bond is to be attached to the application and submitted.
- Line 13. The State-wide Fire Prevention Code has certain prerequisites, conditions and safeguards to be considered or complied with by the operator of the display. This application is intended to have the applicant acknowledge these prerequisites, conditions and safeguards by reading and initialing each item (Lines 13.1 thru 13.5.2.4).
- If the listed item is not applicable to the circumstance, the applicant is to write "N/A" in place of their initials. An example of this is when shells are manually fired. It would be appropriate for the applicant to write "N/A" for lines 13.4, 13.4.1 and 13.4.2 in place of their initials since those items only relate to electrically fired shells. Line 14 through 16. Self-explanatory.

An incomplete application and permit fee is subject to being returned to the applicant without further processing.



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APPLICATION FOR THE DISPLAY OF AERIAL FIREWORKS

1. Name/Company: _____ 2. Company Phone: _____

3. Mailing address: _____

4. Physical address if different from above: _____

5. City/State/Zip: _____ 6. F.I.D.(Federal ID Number): _____

7. Name and driver's license number of person making application (PRINT): _____

License Number: _____ State of Issuance: _____

8. Sponsorship.

8.1. The fireworks display will be sponsored by:

8.1.1. Name and telephone number of the sponsor's representative: _____ Phone Number: () _____

8.2. The fireworks display will occur at (Provide location by listing address, street intersections, name of complex or facility, etc. Include name of City, County or Town):

9. The firing of display fireworks will occur on:

(Date): _____/_____/20_____ beginning at (time) _____:____am/pm and end at (time) _____:____am/pm.
(Note: If the firing of display fireworks will occur on multiple dates and/or times, list all dates and times on a separate page and attach it to this application.)

9.1. In case of postponement due to weather or for other reason(s), the alternate date and time for line # 9 is:

(Date): _____/_____/20_____ beginning at (time) _____:____am/pm and end at (time) _____:____am/pm.

9.2. The expected arrival of the operator (pyrotechnicians) and product will be at (time) _____:____am/pm on

(Date) _____/_____/20_____. [2.2.2 and 2.2.3]

10. Operators. Assistants and Pyrotechnic Specifications.

10.1. Name and age of the pyrotechnic operator (person actually in charge of firing the display fireworks): [7.1.1]

10.2. List of any qualifications/credentials the operator may possess or is willing to offer: [7.1.2]

10.3 The pyrotechnic experience of the operator can be evidenced by having fired (Check one in each column):

Number of shows fired:

- 1 – 5 shows
- 6 – 10 shows
- 11 – 20 shows
- Over 20 shows

During a period covering:

- 1 – 6 months
- 7 – 12 months
- 13 – 24 months
- Over 24 months

10.3.1 With the latest firing having occurred at (print):

Name of Facility:	Date of Firing:
Physical address of facility:	Name of Sponsor:
Telephone Number of Sponsor:	

10.4 Name and ages of all shooters who will be present (attach additional pages as needed): **[7.2]**

Name (print)	Age

11. List the size (in inches) and number of shells to be fired. Provide additional indication for multi-break shells and/or salutes (reports). Attach additional pages as needed: **[2.1.1 and 2.1.3.2]**

#	Size	Type of Shell

11.1. The display will be fired (check the appropriate box) Manual Electrically Combined

11.2. Answer the following question by placing a check mark in the appropriate box.

Will mortars be reloaded during the display? Yes No **[5.2.9.1 and 5.2.9.2]**

11.3. Mortars to be used will be constructed of (check all that applies): **[2.3.7]**

Steel Paper High Density Polyethylene Fiberglass Other (specify) _____

12. Additional Attachments

The following items are to be provided as attachments to this application.

12.1. [] A diagram of the grounds or facilities where the display will be held. (See application instructions.) The diagram is not required to be to scale but it is to show: **[3.1.1]**

12.1.1. [] The fallout radius (with an indicated distance in feet) for the largest shell to be used in the display **[3.1.3]**; and

12.1.2. [] the points at which the shells and/or cakes are to be positioned and fired **[3.2.3]**; and

12.1.3. [] the lines behind which the audience will be restrained (with an indicated distance in feet) **[3.1.2]**; and

12.1.4. [] location of significant buildings (with an indicated distance in feet), highways, overhead obstructions and utilities **[3.2.1 and 3.1.3.2]**; and

12.1.5. [] The indicated direction of North.

12.2. [] Proof of a corporate surety bond or a public liability insurance policy in an amount acceptable to the sponsor noted on Line 8.1 and the authority having jurisdiction. **[State-wide Fire Prevention Code Sec. 3301 .2.4.2]**

13. Conditions and acknowledgement.

The applicant is required to review and initial the following requirements of the Fire Prevention Code (FPC) and its referenced standards. By initialing each item, the applicant acknowledges their review and agreement to comply with any listed requirements as expressed in the FPC. (If the item does not apply to the circumstance, the applicant is to write N/A in place of their initials.)

13.1. _____ Each shell is marked to indicate its size (e.g., “3-in, shell”), type (e.g., “2-break with report”) and provides the name of the manufacturer, importer, or distributor. **[2.1.3 and 2.1.3.1]**

13.1.1. _____ The shell has a conspicuous warning label stating the shell is a dangerous explosive and is of a contrasting color to its background. **[2.1.3]**

13.1.2. _____ each type of aerial salute is conspicuously marked with the word “Salute.” **[2.1.3.2]**

13.2. _____ If reloads are used during the display, the ready box will be capable of protecting the contents from burning debris with a self-closing cover or by an equivalent means or method. **[2.2.4.1]**

13.2.1. _____ During the performance of the display, the ready box will be located at least 25 feet upwind from the mortar placement. **[2.2.4.3]**

13.2.2. _____ The reloading of shells will be confined to shells with a 6-inch or less diameter. **[5.2.9.1]**

13.3. _____ The display site has a radius of not less than 70 feet per inch of diameter of the largest shell to be fired. The display site radius from health care and detention/correctional facilities, or to the bulk storage area of materials that have a flammability, explosive, or toxic hazard, will not be less than 140 feet per inch of diameter of the largest shell to be fired. **[3.1.3, 3.1.3.3 and 3.1.3.4]**

13.3.1. _____ No spectators or spectator parking will be located within the display site. **[3.1.3.1]**

13.3.2. _____ Any ground display pieces used will be located a minimum distance of 75 feet from spectator viewing and parking areas. **[3.2.2]**

13.3.3. _____ After consulting with the sponsor, assurance is provided by the applicant (operator) the sponsor has made provisions to provide adequate fire protection for the display site and the local fire department has been made fully aware of the anticipated fireworks display. **[5.1 & 5.1.1]**

13.3.4. _____ The sponsor has made provisions to provide a sufficient number of monitors, with distinctive identification (e.g., badges, colored vests, etc.), whose sole duty is enforcement of crowd control around the display area. The sponsor will determine the number of monitors with the concurrence of the FMO and operator. Where practical, fences or rope barriers can be incorporated by the monitors to aid in crowd control and will not to be used to supplant the number of monitors. **[5.1.2 & 5.1.2.1]**

13.4. _____ When firing shells electrically, the firing system is designed to ensure against accidental firing by providing at least a two-step interlock process that requires the operator to intentionally enable or arm the firing system; and deliberately apply firing power. **[6.2.2 & 6.2.3]**

13.4.1. _____ The power source used for firing pyrotechnic devices is restricted to batteries or isolated power supplies used for firing purposes only. **[6.2.11]**

13.4.2. _____ Any shell larger than 6-inches in diameter will be pre-loaded into the mortar(s) and fired electrically. **[5.2.9.2]**

13.5. _____ Except for securely fastened mortar racks; mortars will be buried to a depth of at least 66.6% of their length. **[2.4.1]**

13.5.1. _____ When mortars are to be reloaded during a display, mortars of various sizes will not be intermixed. Mortars of the same size will be placed in groups according to size and groups will be separated from one another. **[2.3.3]**

13.5.2. _____ Mortars will be of sufficient length, strength and durability to fire the aerial shells safely and to safe heights. **[2.3.9 & 2.3.7]**

13.5.2.1. _____ The tensile strength of steel pipe mortars should be at least 40,000 psi. Metal mortars with seams will placed so that all seams face either left or right when viewing the line of mortars. The walls of steel mortars should be a minimum thickness of: **[A.2.3.7(a)]**

Mortar ID (in.)	Spherical	Cylindrical Single Break	Cylindrical Multi-Break
3	0.04	0.11	0.21
4	0.05	0.12	0.23
5	0.06	0.13	0.25
6	0.07	0.14	0.27
8	0.09	0.16	0.31
10	0.11	0.18	0.35
12	0.13	0.20	0.39

13.5.2.2. _____ The tensile strength of High Density Polyethylene plastic mortars should be at least 3500 psi. The wall of plastic mortars should be a minimum thickness of: **[A.2.3.7(c)]**

Mortar ID (in.)	Spherical	Cylindrical Single Break	Cylindrical Multi-Break
3	0.15	0.17	0.17
4	0.20	0.25	0.25
5	0.25	0.25	0.25
6	0.30	0.32	0.32
8	0.32	2	2
10	0.32	2	2
12	0.37	2	2

¹ If any other plastic pipe is used, such as PVC, please provide proof or evidence the material meets or exceeds the 3500 psi threshold.

² Provide documentation from plastic manufacturer that provides evidence or proof the material meets or exceeds a 3500 psi threshold.

13.5.2.3. _____ The tensile strength of Fiberglass should be at least 11,000 psi. The wall of fiberglass mortars should be a minimum thickness of: [A.2.3.7(d)]

Mortar ID (in.)	Spherical	Cylindrical Single Break	Cylindrical Multi-Break
3	0.07	0.11	0.11
4	0.11	0.11	0.11
5	0.11	0.11	0.11
6	0.11	0.11	0.11
8	0.25	1	1
10	0.25	1	1
12	0.25	1	1

¹ Data not currently available.

13.5.2.4. _____ The inside mortar length will be a minimum of: [A.2.3.9]

Mortar ID_(in.)	Single Break	Double Break	Up to 4-Break
3	15	18	21
4	20	23	27
5	24	28	32
6	28	32	37
8	34	40	46
10	40	46	54
12	46	52	62

14. By my signature below, I attest the above information is accurate and correct. I acknowledge and agree to comply with all applicable requirements of the Statewide Fire Prevention Code (SFPC) and its referenced standard governing the use, storage and firing of display fireworks, *even those not specifically expressed on this application.*

I also acknowledge that if a permit is issued based upon this application, it shall:

1. Be valid only at the location listed on the application, and for the specific date(s) and time(s) for which it is issued; and
2. Does not convey approval to store explosives (display fireworks) beyond the temporary (less than 24-hour) on-site storage of the display fireworks on the date of the approved display.

This application and attachments are submitted with the required permit fee of \$30.00 in the form of a check or money order payable to Shenandoah County Treasurer.

If approved for permit issuance, I acknowledge that **a copy of this application and all its attachments will be available on-site during the dates and times noted on lines #9, 9.1 and 9.2** of the application, and constitute approval to proceed with the activity applied for. I further acknowledge and understand that any SFPC violations identified after permit issuance may result in immediate permit suspension or revocation.

15. Signature of Applicant (person listed on line 7):

16. Date:

PERMIT

To be completed by Shenandoah County Department of Fire and Rescue
personnel only:

Application reviewed by (print name): _____ Review date: _____

Application for permit is: Approved Not Approved

Reviewer's comments, additional conditions, or reasons for non-approval:

Signature of reviewer: _____