



**King George County**  
**Fire, Rescue, and Emergency Services**  
**8122 Kings Hwy**  
**King George, VA 22485**  
**(540) 775-8900 – FAX (540) 775-9060**

**Instructions for completing the attached**  
**Aerial Fireworks Display permit application and must submitted**  
**60 days prior to the date of the display**

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

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

**Line 3.** Use 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 city, state and zip code for the complete mailing address.

**Line 6.** If a company is making application, write in the Federal Identification Number as provided by the IRS for the company applying for the permit. If a company is not making 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 licensure 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 Department of Fire and Rescue (herein known as "the Department") 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 Department 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 State Fire Protection 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 8½ 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 8½ 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 8½ 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. (If the diagram exceeds a standard 8 ½ by 11 inch dimension, please provide two [2] copies.)

**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 not less than \$1,000,000.00. Site conditions or exposures may dictate a greater amount will be required. After consulting with legal counsel, if a greater amount is required, the fire official will inform the applicant in the most expedient and efficient manner possible.

**Line 13.** The SFPC has certain prerequisites, conditions and safeguards to be 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.

**Lines 14 through 16.** Self-explanatory.

Version 1

**An incomplete application is subject to being returned to applicant without processing which could delay the permit process.**



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## **Application for the Display of Aerial Fireworks**

**This section is to be completed by the FIREWORKS DISPLAY COMPANY representative:**

1. Name/Company: \_\_\_\_\_ 2. Company Phone #: \_\_\_\_\_
3. Mailing address: \_\_\_\_\_
4. Physical address if different from above: \_\_\_\_\_
5. City/State/Zip: \_\_\_\_\_ 6. F.I.D.: \_\_\_\_\_
7. Name of person making application: \_\_\_\_\_  
Driver's 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:  
\_\_\_\_\_
- 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 ending 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 ending at (time) \_\_\_\_\_ : \_\_\_\_\_ AM PM.

9.2 The expected arrival of the operator (pyrotechnician) and product will be at

(time) \_\_\_\_\_ : \_\_\_\_\_ AM PM on (date) \_\_\_\_\_ / \_\_\_\_\_ / 20 \_\_\_\_\_ .

10. Operators, Assistants and Pyrotechnic Specifications.

10.1. Name and age of the pyrotechnic operator (person actually in charge of firing the display fireworks):  
\_\_\_\_\_  
\_\_\_\_\_

10.2. List of any qualifications/credentials the operator may possess or is willing to offer: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

<u>Number of shows fired:</u>	<u>During a period covering:</u>
1 – 5 shows	1 – 6 months
5 – 10 shows	6 – 12 months
10 – 20 shows	12 – 24 months
Over 20 shows	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):

Name	Age

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

#	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

11.3. Mortars to be used will be constructed of (check all that apply):

Steel      Paper      High Density Polyethylene      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:

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

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

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

12.1.4. location of significant buildings (with an indicated distance in feet), highways, overhead obstructions and utilities; 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 not less than \$1,000,000.00. (Note: A greater amount may be required when conditions at the display location indicate a greater amount is required or justified by the exposures encountered at the site.)

#### 13. Conditions and Acknowledgement.

The applicant is required to review and initial the following requirements of the Statewide Fire Prevention Code (SFPC) 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 SFPC. (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.

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.

13.1.2. \_\_\_\_\_ Each type of aerial salute is conspicuously marked with the word "Salute."

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.

13.2.1. \_\_\_\_\_ During the performance of the display, the ready box will be located at least 25 feet upwind from the mortar placement.

13.2.2. \_\_\_\_\_ The reloading of shells will be confined to shells with a 6-inch or less diameter.

13.3. \_\_\_\_\_ The display site has a radius of not less than 100 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 200 feet per inch of diameter of the largest shell to be fired.

13.3.2. \_\_\_\_\_ No spectators or spectator parking will be located within the display site.

13.3.3. \_\_\_\_\_ Any ground display pieces used will be located a minimum distance of 75 feet from spectator viewing and parking areas.

13.3.4. \_\_\_\_\_ The sponsor has made provisions to provide adequate fire protection for the display site.

13.3.5. \_\_\_\_\_ 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 SFMO and operator. Where practical, fences and 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.

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.

13.4.1. \_\_\_\_\_ The power source used for firing pyrotechnic devices is restricted to batteries or isolated power supplies used for firing purposes only.

13.4.2. \_\_\_\_\_ Any shell larger than 6-inches in diameter will be pre-loaded into the mortar(s) and fired electrically.

13.5. \_\_\_\_\_ Except for securely fastened mortar racks; mortars will be buried to a depth of at least 66.6% of their length.

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.

13.5.2. \_\_\_\_\_ Mortars will be of sufficient length, strength and durability to fire the aerial shells safely and to safe heights.

13.5.2.1. \_\_\_\_\_ The tensile strength of steel pipe mortars will be at least 40,000 psi. Metal mortars with seams will be placed so that all seams face either left or right when viewing the line of mortars. The walls of steel mortars will be a minimum thickness of:

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 cross-grain tensile strength of paper mortars will be at 2300 psi. The wall of paper mortars will be a minimum thickness of:

Mortar ID (in.)	Spherical	Cylindrical Single Break	Cylindrical Multi-Break
3	0.25	0.25	0.37
4	0.25	0.33	0.50
5	0.31	0.42	0.62
6	0.37	0.50	0.75
8	0.50	0.62	-
10	0.62	-	-
12	0.75	-	-

13.5.2.3. \_\_\_\_\_ The tensile strength of High Density Polyethylene<sup>1</sup> plastic mortars will be at least 3500 psi. The wall of plastic mortars will be a minimum thickness of:

Mortar ID (in.)	Spherical	Cylindrical Single Break	Cylindrical Multi-Break
3	0.15	0.20	<sup>3</sup>
4	0.20	0.26	<sup>3</sup>
5	0.25	<sup>3</sup>	<sup>3</sup>
6	0.30	<sup>3</sup>	<sup>3</sup>
8	2	<sup>3</sup>	<sup>3</sup>
10	2	<sup>3</sup>	<sup>3</sup>
12	2	<sup>3</sup>	<sup>3</sup>

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

<sup>2</sup> Data not currently available

<sup>3</sup> Provide documentation from plastic manufacturer that provides evidence or proof the material meets or exceeds the 3500 psi threshold.

13.5.2.4. \_\_\_\_\_ The inside mortar length will be a minimum of:

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 Virginia 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.

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 <b>APPLICANT</b> (person listed on line 7):	16. Date:
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17. Signature of <b>SPONSOR</b> (person listed on line 8.1.1):	18. Date:
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**For Office Use 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: \_\_\_\_\_