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July 25, 2011

Mr. David W. Gibson
Executive Officer
California Regional Water Quality Control Board – San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

Order No.R9-2011-0022; Fireworks Discharges to Waters of United States
CRU: 9 000002292
CIWQS Place ID: 767544

Dear Mr. Gibson,

In accordance with the Notice of Enrollment and NPDES permit provided on June 23, 2011, please find attached the certified "Post Fireworks Display Report & Log" for the five (5) locations of the Port of San Diego's Big Bay Boom July 4th Fireworks Show to benefit the San Diego Armed Services YMCA.

Please also find the list of "Best Management Practices" followed by the event operators, the report of the Patrol Boat Commander of the 16 boats that inspected the area for debris after the show, the report of the Executive Producer's inspection of the fall out zone the next morning and report filed by the Imperial Beach City Manager and Fire Inspector.

Please let me know if we are missing anything or if you need additional information to make the requirements of the permit complete.

Sincerely,



H. P. "Sandy" Purdon, Executive Producer
Port of San Diego's Big Bay Boom July 4th Fireworks Show

Enclosures

NO NOH



Port of San Diego Big Bay Boom

An Independence Day Spectacular

July 4, 2011 • 9:00 P.M



**300 YARD SAFETY ZONE
PLEASE STAY CLEAR**



EMBARCADERO BARGE
32° 43.80' North
117° 10.77' West

**SEAPORT VILLAGE
CORONADO LANDING
BARGE**
32° 42.20' North
117° 10.04' West

HARBOR ISLAND BARGE
32° 43.33' North
117° 12.00' West

SHELTER ISLAND BARGE
32° 42.81' North
117° 13.32' West

*Enjoy the biggest
fireworks show in San Diego!*

Simulcast LIVE on



TO BENEFIT

ARMED SERVICES YMCA



**IMPERIAL BEACH
PIER**

For more information on this event, please go to: www.thebigbay.com

GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

ORDER NO. R9-2011-0022
NPDES NO. CAG989002

**ATTACHMENT C - PUBLIC DISPLAY OF FIREWORKS POST EVENT REPORT
FORM**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

POST FIREWORKS DISPLAY REPORT

This form shall be completed no later than thirty (30) days following a public display of fireworks event and made available to the San Diego Water Board upon request. Reports shall be submitted to the San Diego Water Board in accordance with the schedule outlined in Section X.B.3 of the Monitoring and Reporting Program.

Completed forms may be submitted electronically on compact disk or by hard copy to the San Diego Water Board office. The San Diego Water Board may accept electronic submission of this form (Check with the San Diego Water Board before submitting electronically).

Name of Organization Hosting the Event San Diego Armed Services, YMC A		WDID No. 9-000002292
Contact Person for Organization Hosting the Event: Name: Sandy Purdon Phone Number: (619) 822-1177 Email: HP Purdon @cox.net		
Location of Event - Address and GPS Coordinates IMPERIAL BEACH PIER		Name of Receiving Water(s) PACIFIC OCEAN
Date of Display 7/4/11	Time of Display FROM 900P.M to 920P.M	
Map. Attach a map or diagram identifying the firing range, adjacent shorelines, quays, and docks, any other appropriate features of the firing range and adjacent affected surface water(s). The firing range is that area over which fireworks may travel by design or accident and upon which firework pollutant waste may fall. It includes the fireworks launching area and adjacent shorelines, quays, docks and the fireworks fallout area.		
Name and License No. of Pyrotechnic Operators		
1. Steve LAMMERDING		1181-02
2.		
3.		

N N O N O H H

GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

ORDER NO. R9-2011-0022
NPOES NO. CAG999002

Particulars of Display*						Low Level Items*		Ground Displays*	
Shell Size	No. Single Breaks	No. Multi Breaks	Shell Size	No. Single Breaks	No. Multi Breaks	Type	Qty	Type	Qty
25 mm			7"			MINES		SETS	
80 mm			8"	16		ROMANS		DEVICES	
2"			9"			COMETS			
3"	650		10"	6		CAKES	25		
4"	240		11"						
5"	180		12"						
6"	140								

Net Explosive Weight: 750 lbs

Were alternative fireworks used? If so, indicate which fireworks were environmentally friendly.

NO

Defective Shells - List Manufacturer's Name, Size Of Shell, And Malfunction.*

None

Were the entire firing range (including the fireworks launching area, adjacent shorelines, quays, docks and the fireworks fallout area), barge(s) (if used) and adjacent surface water(s) inspected and cleaned of particulate matter and debris from ignited and un-ignited pyrotechnic material within 24 hours following the display?

Yes Date 7/5/11 Time 8:00 AM

No


if no, explain:

Amount of debris collected from the firing range: 15 lbs dry weight (~~15~~ DEBRIS)

Amount of floating debris collected from adjacent surface water(s): 0 lbs wet weight
0 lbs dry weight (if known)

I certify under penalty of law that the information provided in this application and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the criteria for eligibility will be complied with.

NONOHH

Printed Name: STEVEN M LAMMERDING	
Signature: 	Date: JULY 20, 2011
Title: PYROTECHNIC OPERATOR	

*May attach a copy of the Pyrotechnic Operator Post Display Report submitted to the Office of the State Fire Marshall to satisfy this requirement.

Attachment C- Notification of Fireworks Event

GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

ORDER NO. R9-2011-0022
NPDES NO. CAG999002

**ATTACHMENT C – PUBLIC DISPLAY OF FIREWORKS POST EVENT REPORT
FORM**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

POST FIREWORKS DISPLAY REPORT

This form shall be completed no later than thirty (30) days following a public display of fireworks event and made available to the San Diego Water Board upon request. Reports shall be submitted to the San Diego Water Board in accordance with the schedule outlined in Section X.B.3 of the Monitoring and Reporting Program.

Completed forms may be submitted electronically on compact disk or by hard copy to the San Diego Water Board office. The San Diego Water Board may accept electronic submission of this form (Check with the San Diego Water Board before submitting electronically).

Name of Organization Hosting the Event SAN DIEGO ARMED SERVICES YMCA		WDID No. 9-000002292
Contact Person for Organization Hosting the Event: Name: SANDY PURDON Phone Number: (619) 822-1177 Email: HPPURDON@COX.NET		
Location of Event – Address and GPS Coordinates HARBOR ISLAND		Name of Receiving Water(s) SAN DIEGO BAY
Date of Display 7/4/2011	Time of Display FROM 9:00 P.M. to 9:20 P.M.	
Map. Attach a map or diagram identifying the firing range, adjacent shorelines, quays, and docks, any other appropriate features of the firing range and adjacent affected surface water(s). The firing range is that area over which fireworks may travel by design or accident and upon which firework pollutant waste may fall. It includes the fireworks launching area and adjacent shorelines, quays, docks and the fireworks fallout area. Steve Jeffries		
Name and License No. of Pyrotechnic Operators		
1. STEVE JEFFRIES LICENSE NO 1270-02		
2.		
3.		

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GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

ORDER NO. R9-2011-0022
NPDES NO. CAG899002

Particulars of Display*						Low Level Items*		Ground Displays*	
Shell Size	No. Single Breaks	No. Multi Breaks	Shell Size	No. Single Breaks	No. Multi Breaks	Type	Qty	Type	Qty
25 mm			7"			MINES		SETS	
80 mm			8"	16		ROMANS		DEVICES	
2"			9"			COMETS			
3"	650		10"	6		CAKES	25		
4"	240		11"						
5"	180		12"						
6"	140								

Net Explosive Weight: 750 lbs

Were alternative fireworks used? If so, indicate which fireworks were environmentally friendly.
NO

Defective Shells - List Manufacturer's Name, Size Of Shell, And Malfunction.*
NONE

Were the entire firing range (including the fireworks launching area, adjacent shorelines, quays, docks and the fireworks fallout area), barge(s) (if used) and adjacent surface water(s) inspected and cleaned of particulate matter and debris from ignited and un-ignited pyrotechnic material within 24 hours following the display?

Yes Date 7/5/11 Time 8:00 AM
 No


If no, explain:

Amount of debris collected from the firing range: 15 lbs dry weight (BARGE DEBRIS)

Amount of floating debris collected from adjacent surface water(s): 0 lbs wet weight
0 lbs dry weight (if known)

I certify under penalty of law that the information provided in this application and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the criteria for eligibility will be complied with.

*May attach a copy of the Pyrotechnic Operator Post Display Report submitted to the Office of the State Fire Marshall to satisfy this requirement.

Printed Name: Steve J. Ferris	
Signature: 	
Title: Operator	Date: 7/27/11

ORDER NO. RA-2011-0022
NPDES NO. CAG989002

GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

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GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

ORDER NO RS-2011-0022
NPDES NO CA-090002

**ATTACHMENT C - PUBLIC DISPLAY OF FIREWORKS POST EVENT REPORT
FORM**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

POST FIREWORKS DISPLAY REPORT

This form shall be completed no later than thirty (30) days following a public display of fireworks event and made available to the San Diego Water Board upon request. Reports shall be submitted to the San Diego Water Board in accordance with the schedule outlined in Section X.B.3 of the Monitoring and Reporting Program.

Completed forms may be submitted electronically on compact disk or by hard copy to the San Diego Water Board office. The San Diego Water Board may accept electronic submission of this form (Check with the San Diego Water Board before submitting electronically).

Name of Organization Hosting the Event SAN DIEGO ARMED SERVICES YMC		WDID No. 9-000002292
Contact Person for Organization Hosting the Event: Name: SANDY PURDON Phone Number: 619 822-1177 Email: hpurdun@cix.net		
Location of Event - Address and GPS Coordinates SHELTER ISLAND		Name of Receiving Water(s) SAN DIEGO BAY
Date of Display 7/4/11	Time of Display FROM 9:00 PM to 9:20 PM	
Map. Attach a map or diagram identifying the firing range, adjacent shorelines, quays, and docks, any other appropriate features of the firing range and adjacent affected surface water(s). The firing range is that area over which fireworks may travel by design or accident and upon which firework pollutant waste may fall. It includes the fireworks launching area and adjacent shorelines, quays, docks and the fireworks fallout area.		
Name and License No. of Pyrotechnic Operators		
1. Melvin Goodenough # 2537-02		
2.		
3.		

GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKSORDER NO. PB-2011-0022
NPCES NO. CAG980002

Particulars of Display*						Low Level Items*		Ground Displays*	
Shell Size	No. Single Breaks	No. Multi Breaks	Shell Size	No. Single Breaks	No. Multi Breaks	Type	Qty	Type	Qty
25 mm			7"			MINES		SETS	
80 mm			8"	16		ROMANS		DEVICES	
2"			9"			COMETS			
3"	650		10"	6		CAKES	25		
4"	240		11"						
5"	180		12"						
6"	140								
Net Explosive Weight: 750									
Were alternative fireworks used? If so, indicate which fireworks were environmentally friendly. NO									
Defective Shells - List Manufacturer's Name, Size Of Shell, And Malfunction.* NONE									
Were the entire firing range (including the fireworks launching area, adjacent shorelines, quays, docks and the fireworks fallout area), barge(s) (if used) and adjacent surface water(s) inspected and cleaned of particulate matter and debris from ignited and un-ignited pyrotechnic material within 24 hours following the display? <input checked="" type="checkbox"/> Yes Date <u>7/5/11</u> Time <u>8:00 AM</u> <input type="checkbox"/> No If no, explain:									
Amount of debris collected from the firing range: <u>15</u> lbs dry weight									
Amount of floating debris collected from adjacent surface water(s): <u>0</u> lbs wet weight <u>0</u> lbs dry weight (if known)									
I certify under penalty of law that the information provided in this application and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the criteria for eligibility will be complied with.									

GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

ORDER NO. RS-2011-0022
NPOES NO. CAG66002

Printed Name: Melvin L Goodenough Jr	
Signature: <i>Melvin L Goodenough Jr</i>	Date: 7-12-11
Title: Pyrotechnic Operator # 2532-02	

*May attach a copy of the Pyrotechnic Operator Post Display Report submitted to the Office of the State Fire Marshall to satisfy this requirement.

GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

ORDER NO. R9-2011-0022
NPDES NO. CAG999002

**ATTACHMENT C - PUBLIC DISPLAY OF FIREWORKS POST EVENT REPORT
FORM**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

POST FIREWORKS DISPLAY REPORT

This form shall be completed no later than thirty (30) days following a public display of fireworks event and made available to the San Diego Water Board upon request. Reports shall be submitted to the San Diego Water Board in accordance with the schedule outlined in Section X.B.3 of the Monitoring and Reporting Program.

Completed forms may be submitted electronically on compact disk or by hard copy to the San Diego Water Board office. The San Diego Water Board may accept electronic submission of this form (Check with the San Diego Water Board before submitting electronically).

Name of Organization Hosting the Event SAN DIEGO ARMED SERVICES YUCA		WDID No. 9-000002292
Contact Person for Organization Hosting the Event: Name: SANDY PURDON Phone Number: (619) 822-1177 Email: HPPURDON@COX.NET		
Location of Event - Address and GPS Coordinates NORTH EMBARCADERO		Name of Receiving Water(s) SAN DIEGO BAY
Date of Display 7/4/11	Time of Display FROM 9:00 P.M. to 9:20 P.M.	
Map. Attach a map or diagram identifying the firing range, adjacent shorelines, quays, and docks, any other appropriate features of the firing range and adjacent affected surface water(s). The firing range is that area over which fireworks may travel by design or accident and upon which firework pollutant waste may fall. It includes the fireworks launching area and adjacent shorelines, quays, docks and the fireworks fallout area.		
Name and License No. of Pyrotechnic Operators		
1. PAUL SPREIGHT LICENSE NO. 2955-02		
2.		
3.		

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GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

ORDER NO. R9-2011-0022
NPDES NO. CAG899002

Particulars of Display*						Low Level Items*		Ground Displays*	
Shell Size	No. Single Breaks	No. Multi Breaks	Shell Size	No. Single Breaks	No. Multi Breaks	Type	Qty	Type	Qty
25 mm			7"			MINES		SETS	
80 mm			8"	16		ROMANS		DEVICES	
2"			9"			COMETS			
3"	650		10"	6		CAKES	25		
4"	240		11"						
5"	180		12"						
6"	140								

Net Explosive Weight: 750 lbs.

Were alternative fireworks used? If so, indicate which fireworks were environmentally friendly.
NO

Defective Shells - List Manufacturer's Name, Size Of Shell, And Malfunction.*
NONE

Were the entire firing range (including the fireworks launching area, adjacent shorelines, quays, docks and the fireworks fallout area), barge(s) (if used) and adjacent surface water(s) inspected and cleaned of particulate matter and debris from ignited and un-ignited pyrotechnic material within 24 hours following the display?
 Yes Date 7/5/11 Time 8:00 AM
 No

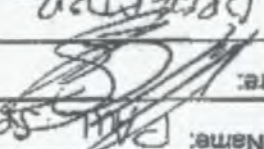
If no, explain:

Amount of debris collected from the firing range: 15 lbs dry weight

Amount of floating debris collected from adjacent surface water(s): 0 lbs wet weight
0 lbs dry weight (if known)

I certify under penalty of law that the information provided in this application and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the criteria for eligibility will be complied with.

*May attach a copy of the Pyrotechnic Operator Post Display Report submitted to the Office of the State Fire Marshall to satisfy this requirement.

Printed Name: PAH SEIGITT	
Signature: 	Date: 7/5/11
Title: DIRECTOR	

ORDER NO. R9-2011-0022
 NPDES NO. CAG999002

GENERAL PERMIT FOR
 PUBLIC DISPLAY OF FIREWORKS

CENTRAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKSCROSS NO. RB-2311-0022
NPDES NO. CA089002ATTACHMENT C - PUBLIC DISPLAY OF FIREWORKS POST EVENT REPORT
FORMCALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

POST FIREWORKS DISPLAY REPORT

This form shall be completed no later than thirty (30) days following a public display of fireworks event and made available to the San Diego Water Board upon request. Reports shall be submitted to the San Diego Water Board in accordance with the schedule outlined in Section X.B.3 of the Monitoring and Reporting Program

Completed forms may be submitted electronically on compact disk or by hard copy to the San Diego Water Board office. The San Diego Water Board may accept electronic submission of this form (Check with the San Diego Water Board before submitting electronically).

Name of Organization Hosting the Event		WDID No.
SAN DIEGO ARMED SERVICES YMCA		9-000002292
Contact Person for Organization Hosting the Event		
Name: SANDY PURDON		
Phone Number: 619-822-1177		
Email: hppurdon@cox.net		
Location of Event - Address and GPS Coordinates		Name of Receiving Water(s)
SOUTH EMBARCADERO, SAN DIEGO BAY		SAN DIEGO BAY
Date of Display	Time of Display	
7/4/11	FROM 9:00 P.M. to 9:20 P.M.	
Map. Attach a map or diagram identifying the firing range, adjacent shorelines, quays, and docks, any other appropriate features of the firing range and adjacent affected surface water(s). The firing range is that area over which fireworks may travel by design or accident and upon which firework pollutant waste may fall. It includes the fireworks launching area and adjacent shorelines, quays, docks and the fireworks fallout area		
Name and License No. of Pyrotechnic Operators		
1. DAVID DE FABIO LICENSE No. 1158-02		
2. MEL GOODENOUGH LICENSE No. 2537-02		
3. STEVE LAMMERDING LICENSE No. 1181-02		
4. PAUL SPEIGHT LICENSE No. 2955-02		
5. STEVE JEFFRIES LICENSE No. 1270-02		

Attachment C - Notification of Fireworks Event

C-1

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GENERAL PERMIT FOR PUBLIC DISPLAY OF FIREWORKS

ORDER NO. RM-2011-0122
NPDES NO. CA0000000

Particulars of Display*						Low Level Items*		Ground Displays*	
Shell Size	No. Single Breaks	No. Multi Breaks	Shell Size	No. Single Breaks	No. Multi Breaks	Type	Qty	Type	Qty
25 mm			7"			MINES		SETS	
80 mm			8"	16		ROMANS		DEVICES	
2"			9"			COMETS			
3"	650		10"	6		CAKES	25		
4"	240		11"						
5"	180		12"						
6"	140								
Net Explosive Weight: 750									
Were alternative fireworks used? If so, indicate which fireworks were environmentally friendly									
NO									
Defective Shells - List Manufacturer's Name, Size Of Shell, And Malfunction.*									
Ø									
Were the entire firing range (including the fireworks launching area, adjacent shorelines, quays, docks and the fireworks fallout area), barge(s) (if used) and adjacent surface water(s) inspected and cleaned of particulate matter and debris from ignited and un-ignited pyrotechnic material within 24 hours following the display?									
<input checked="" type="checkbox"/> Yes Date <u>7/5/11</u> Time <u>@ 8:00 A.M.</u>									
<input type="checkbox"/> No									
If no, explain.									
Amount of debris collected from the firing range: <u>15</u> lbs dry weight									
Amount of floating debris collected from adjacent surface water(s): <u>Ø</u> lbs wet weight									
<u>Ø</u> lbs dry weight (if known)									
I certify under penalty of law that the information provided in this application and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit including the criteria for eligibility will be complied with.									

Attachment C - Notification of Fireworks Event

C-2

C-3

Attachment C - Notification of Fireworks Event

Printed Name: DAVID DE FABIO

Signature: *David De Fabio*

Title: Pyrotechnic Operator

Date: 7/14/11

*May attach a copy of the Pyrotechnic Operator Post Display Report submitted to the Office of the State Fire Marshal to satisfy this requirement.

CRDCR NO 98-2011-0022
NFES NO. 04/889907

GENERAL PERMIT FOR
PUBLIC DISPLAY OF FIREWORKS

V. DISCHARGE SPECIFICATIONS

A. Effluent Limitations – Not Applicable

B. Fireworks Best Management Practices Plan (FBMPP)

The Discharger shall prepare and implement a Fireworks Best Management Practices Plan (FBMPP) to prevent or reduce the discharge of pollutants associated with the public display of fireworks. The FBMPP shall address, at a minimum, the following elements:

1. Whenever practicable and economically feasible, the Discharger shall consider the use of alternative fireworks produced with new pyrotechnic formulas that replace perchlorate with other oxidizers and propellants that burn cleaner, produce less smoke and reduce pollutant waste loading to surface waters.
2. Whenever practicable and feasible, the Discharger shall design the firing range, or consider alternative firing ranges, to eliminate or reduce residual firework pollutant waste discharges to waters of the United States.
3. As soon as practicable, and no later than 24 hours following a public display of fireworks, the Discharger, in addition to complying with title 19 of the California Code of Regulations, section 1003, shall, to the extent practical, collect, remove, and manage particulate matter and debris from ignited and un-ignited pyrotechnic material including aerial shells, stars (small pellets of composition that produce color pyrotechnic effects), paper, cardboard, wires and fuses-found during inspection of the entire firing range and adjacent affected surface water(s).
4. If the fireworks are launched or ignited on barges or floating platforms, the fireworks and fireworks equipment shall be setup, discharged and taken down in accordance with the laws and regulations applying to that display by a public display operator licensed by the State of California. All required permits, licenses and approvals shall be obtained from the authorities having jurisdiction over the fireworks display, and the parties responsible under applicable law and regulation shall comply with the requirements and conditions of those permits and licenses. All equipment used to hold and launch the fireworks shall be secured properly in accordance with applicable laws and regulations and in such a way as to minimize the risk that the equipment and fireworks would fall into the water. Barges and floating platforms shall be inspected for leaks and other potential safety issues. Other than system firing cables and common or grounding wires intended to be recovered after the display, electric igniter wires used to trigger the fireworks shall be secured to minimize the risk that the wires would fall into the water during or after the discharge. As soon as practicable, and no later than 24

**BEST MANAGEMENT PRACTICES TO PROTECT WATER QUALITY
DURING FIREWORKS EXHIBITS OVER SAN DIEGO BAY**

1. Fireworks displays over San Diego Bay will be conducted from barges stationed in the main harbor channel at Seaport Village, the Embarcadero, Harbor Island, and Shelter Island. A 300-yard minimum safety-exclusion zone will be established around each barge. Public access will be prohibited in this zone, and neither spectators nor occupied vessels not containing fireworks technicians will be allowed within the area during the time the fireworks are being fired.
2. The fireworks displays on the barges will be set up at a loading facility yard in accordance with the requirements and under the supervision of the San Diego Fire Department. The "mortars" used to launch the fireworks will be nailed to the barge with wood, and larger mortars will be placed in sand in accordance with local codes.
3. The barges will be inspected for leaks and other potential safety issues. All debris including fuses, wires, and wrappings will be properly disposed in trash receptacles as the display is set up.
4. The fireworks will be loaded on the barges in their DOT-approved shipping cartons. There will be no loose compounds as the fireworks will be encased in paper wrappers.
5. The wires used to trigger the fireworks will be secured on the barges to prevent the wires from being pulled into the air and falling into the water. These wires are connected to the computer firing equipment modules via wire cables that are expensive and so are reused for future shows.
6. Once the fireworks preparation is complete, all debris including water bottles, paper wrappers, cardboard shipping boxes, plastic, and other materials will be removed from the barge and properly disposed. This will remove excess items that could cause an unwanted fire on the barge, and prevents debris from blowing into the water. No loose material will be allowed on the barges during the show.
7. When the show is over, the fireworks operators will observe a cool down or safety period of at least 20 minutes.
8. After the cool down period expires, the fireworks operators will check the mortars and surrounding areas on the barges for any safety issues. Once the site is deemed safe, the operators will immediately pick up large debris from and sweep the decks of each barge to prevent debris and other solid waste from blowing into the water. The barges will be returned to the loading/setup yard facility to be further cleaned and to have the mortars removed.

Barge setup, preparation, discharge and cleanup practices

This is not meant to be an all inclusive list of every step or measure that is taken as sometimes weather conditions require variation of certain procedures as they pertain to safety of the pyrotechnic operators. However, as a general practice the following shall serve as an outline of our typical procedures for a barge fired display.

1. Barges are setup at loading facility yard in accordance with permits and supervision by governing fire officials. All fireworks mortars are nailed with wood and large mortars are placed in sand in accordance with local codes.
2. The fireworks are brought to the barge and loaded on in their DOT approved shipping cartons and are prepared for loading. There are no loose compounds as the fireworks contents are encased in paper.
3. The fireworks are loaded and the electric match is placed in the fireworks fuse. The wire from the electric match is wrapped around the nails that are installed to set up the racks. The purpose of this is to prevent wires from being ripped out and cause technical problems and it also serves to prevent wires from being pulled into the air and thrown into the water. These wires are connected into our computer firing equipment modules via wire cables. These cables are expensive and we re-use them so all of this material is located on the barge and does not ever become an issue or impact to the environment.
4. Once the fireworks are prepared all debris is removed from the barge while it is the setup yard. That means all water bottles that were drank by workers, paper wrappers, cardboard boxes the fireworks were shipped in, plastic, etc. are removed prior to the barge being moved into position. This is to prevent any excess items that may cause unwanted fire on the barge and to prevent any random debris from blowing into the water.
5. When the barges are prepared for towing they will be brought into position and ready for firing. There is no loose material on the barges during this time that has any impact. All installations are in place. Once the show is being fired it is absolutely not permitted to enter the firing zone as it is too dangerous and prohibited by law in many jurisdictions. Whether it is law or not, it is plainly our procedure to not risk our technicians. There is nothing that can be done to gather any of the casings and paper that may be present during the discharge of the fireworks. Once the show is over our operators observe the necessary prescribed cool down or safety period, typically 20 to 25 minutes in most jurisdictions. During this time period, we do not allow anyone into the site for safety nor is it permitted.

6. After the cool down period expires, our operators must first check the mortars and surrounding areas for any issues. Once the site is cleared, the operators can then immediately focus on picking up large debris to prevent it from blowing into the water. The barges will then be brought back into the loading/setup yard facility to be cleaned and have the mortars removed. The process is complete at that time.

BIG BAY BOOM JULY 4TH FIREWORKS SHOW

Inspection of Fireworks Barge Locations

July 5, 2011

Date: July 5, 2011

Time: 0800 – 0900

Subject: Inspection of fallout areas around the four barges of the Big Bay Boom July 4th Fireworks Show

Report: At 0800 on the morning of July 5th, 2011, the Big Bay Boom Fireworks Show Producer, H. P. "Sandy" Purdon, and San Diego Yacht member, Rick McElvain, took the latter's vessel to the four locations of the Big Bay Boom barges on San Diego Bay.

Each area of where the barges were located the night before for the Big Bay Boom July 4th Fireworks Show was inspected visually for debris.

Conclusion: After close inspection of these areas, there was no debris found in any of the areas of interest.

Verification:



H. P. "Sandy" Purdon
Executive Producer/Founder
Big Bay Boom July 4th Fireworks Show

July 5, 2011

Date

IMPERIAL BEACH FIRE DEPARTMENT FIREWORKS POST DISPLAY REPORT

Handwritten:
Dud
Jeffries
IB

July 19, 2011

DISPLAY LOCATION: IMPERIAL BEACH PIER, Evergreen Ave., Imperial Beach Ca 91932

DISPLAY DATE: JULY 4, 2011

DISPLAY CONTRACTOR: GARDEN STATE FIREWORKS

PYROTECHNIC OPERATOR: Steve Jeffries CSFM 1270-02 # 1223-02

AUTHORITY HAVING JURISDICTION:

THOMAS SANTOS, FIRE INSPECTOR II, IBFD

DISPLAY START TIME 21:03

DISPLAY END TIME 21:25

"Defective Shell" definitions:

TERM DEFINITION

Detonation The entire shell and lifting charge explode at the bottom of the mortar.

Detonation should not be confused with a "Flower Pot" or "Mine" for the following reasons:

- (1) There is no shower of stars and burning materials;
- (2) The entire shell and lifting charge are consumed in one instantaneous explosion.

Dud A pyrotechnic item that leaves the mortar and returns to earth without producing the intended burst or effect.

Flower Pot A shell (not a lifting charge) that explodes at or near the bottom of a mortar blowing a shower of stars and burning materials into the air.

Low Break The shell explodes below the prescribed height.

Low Burst The shell explodes below the prescribed height.

Misfire A pyrotechnic item that fails to function as designed after initiation.

Muzzle Burst The process of an aerial shell breaking or bursting just as it leaves the mortar, scattering stars and burning material.

NOTED DEFECTIVE SHELLS

Detonation	0
Dud	0
Flower Pot	0
Low Break/ Low Burst	0
Misfire	0
Muzzle Burst	0

IMPERIAL BEACH FIRE DEPARTMENT FIREWORKS POST DISPLAY REPORT

July 19, 2017

DISPLAY LOCATION: IMPERIAL BEACH PIER, Evergreen Ave., Imperial Beach Ca 91932
 DISPLAY DATE: JULY 4, 2017
 DISPLAY CONTRACTOR: GARDEN STATE FIREWORKS
 PYROTECHNIC OPERATOR: Steve Johnson CSTM 1230-02 # 2523-02
 AUTHORITY HAVING JURISDICTION:
 THOMAS SANTOS, FIRE INSPECTOR II, IFPD

DISPLAY START TIME: 21:00
 DISPLAY END TIME: 21:30

"Defective Shell" Definitions TERM DEFINITION

Ostracation: The entire shell and lifting device exploded at the bottom of the mortar.
 (Note: should not be confused with a "flower pot" or "mine" for the following reasons)
 (1) There is no shower of stars and burning material.
 (2) The entire shell and lifting device were contained in a container - such as a mortar.
 (3) A pyrotechnic item that leaves the mortar in a return to form - without exploding
 the intended burst or effect.
 Flower Pot: A shell that a lifting device that exploded at or near the bottom of a mortar
 leaving a shower of stars and burning material into the air.
 Low Burst: The shell explodes below the prescribed height.
 Low Break: The shell explodes below the prescribed height.
 Mine: A pyrotechnic item that fails to function as designed or initiation.
 Muzzle Burst: The process of an aerial shell breaking or bursting just as it leaves the mortar
 causing stars and burning material.

NOTED DEFECTIVE SHELLS

Ostracation	0	
Dud	0	
Flower Pot	0	
Low Break/Low Burst	0	
Mine	0	
Muzzle Burst	0	

Fire : (2) Separate incidences

Area of origin, packaging and related materials from "cakes" used in the display. Spot fires were both isolated to the paper/ cardboard and did not transmit to the pier decking. Fires were extinguished by the licensed technician using portable water fire extinguishers.

Applying a foil barrier under cakes may reduce the chance of damaging the pier decking in the future.

Site management

Prior to event:

Lifeguards were effective informing the public of the requirements both on the shoreline and the 1'000 foot fallout zone. The display only / firing line portion of the pier was accessed by 1 member of the public. The recommendation is that the fireworks display permit holder shall be responsible to post an individual to maintain security of the main access gate.

Site cleanup is the responsibility of Garden State Fireworks and was verified by public works 7/5/2011.

During the event:

The display only / firing line portion of the pier was accessed by 1 member of the U.S. Border Patrol who was responding to "jet skis" (later determined to be our Lifeguards on PWC's). The officer ran far beyond the firing control panel and over the wiring serving the devices. This action may have ended the display or could have potentially created a condition causing all devices to fire at once. The recommendation is to include affected local agencies in the I.A.P.

Overall assessment:

This event has steadily increased in attendance size and due to the disproportionate amount of motor vehicle congestion and foot traffic on all major streets additional resources may be needed to address traffic control.

The addition of lighted buoys or similar devices may serve as better guide for the Lifeguards monitoring the event fallout zone.

Tom Santos

Fire Inspector II, Plans Examiner

Imperial Beach Fire Department

865 Imperial Beach Blvd.

Imperial Beach, CA 91932

Phone: (619) 628-1392 - Fax: (619) 628-1489

tsantos@cityofib.org - www.cityofib.com

7/19/11

Report from Gary Brown, City Manager, City of Imperial Beach:

Capt. Stabenow has also told me that Public Works and Chief Clark verified that the clean-up on the Pier was satisfactorily done by the fireworks company. We don't have any weights of materials.

Area of origin, packaging and listed materials from "cakes" used in the display spot fire were later
located to the paper/clothed and direct transfer to the pier decking. Fires were extinguished by
the local fire technician using portable water fire extinguishers.

Applying a roll barrier under cakes may reduce the chance of damaging the pier decking in the future.

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1/2/2011

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Tom Sontag

Fire Inspector II, Plant Firehouse

Imperial Beach Fire Department

865 Imperial Beach Blvd

Imperial Beach, CA 91932

Phone: (619) 438-1344 Fax: (619) 438-1488

Email: tsontag@cityofib.org / www.cityofib.com

3/23/11

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pier was satisfactory done by the fireworks company. We don't have any weights of materials.