

Noosa Pengari Steiner School Fireworks Incident Chronology

15/11/12

- 1000hrs – Fireworks scheduled to start as per FDN
- 1040hrs – Actual start time of fireworks display
- 1045 – approximate time pyrotechnic has caused ignition of fire in surrounding bush
- 1047 – approximate time estimated that emergency call to QFRS is placed
- 1048 – First fire fighting appliance is dispatched by QFRS Firecom.
- 1102 – QFRS arrived on scene. QFRS appliances continue to be dispatched through the day and into the following day.
- 1252 – KC Fireworks notified Explosives Inspectorate

16/11/12

- 1030hrs – DNRM Explosives Inspectorate (Forcier) attended scene. Photographs and details recorded.
- 1327hrs – Final QFRS unit departs scene

Queensland Fire and Rescue Service - Incident Report

Incident No: QF4-12-115476

Report Status: COMPLETED

Start Date: 15/11/2012

Completed Date: 30/11/2012

Confidential Information for internal use only

Incident Details

Incident Number:	QF4-12-115476	Firecom Region:	4
Report Status:	Completed	Response Area:	DOONAN RFB
Incident Level:	1	Levy Class:	
Alarm Level:	1	Duties Compl. Date:	16/11/2012 13:27:52
Dispatch Level:	Normal	End Date:	16/11/2012 13:27:52
Start Date:	15/11/2012 10:45:07	Last Updated:	30/11/2012 16:20:52
Stop Date:		Total Time:	1 Days, 2 Hrs, 42 Min, 45 Sec
Alarm Raised By:	31-Traveller, passer-by, neighbour		
Notification Method:	71-000 - The reporting person dials 000 or mobile on 112		
Reporting Officer:	Dellit, Kyle		
Entering Officer:	Dellit, Kyle (SO3)		
FIU Officer:			

Attendance Information

Attendance No:	1	Dispatch Time:	15/11/2012 10:48:54
Callsign/Rego:	456A	Mobile Time:	15/11/2012 10:49:49
Appliance Type:	Urban pumper with RCR Capability	Arrival Time:	15/11/2012 11:02:14
Description:	Operator Addition	RTS Time:	15/11/2012 15:02:32
Primary Capability:		To Station Time:	
Org Unit:	NC456 Noosa	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	2	Dispatch Time:	15/11/2012 11:01:24
Callsign/Rego:	DOON52	Mobile Time:	15/11/2012 11:01:31
Appliance Type:		Arrival Time:	15/11/2012 11:03:58
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 16:32:32
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	1717 DOONAN RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	3	Dispatch Time:	15/11/2012 11:03:21
Callsign/Rego:	DOON51	Mobile Time:	15/11/2012 11:03:38
Appliance Type:		Arrival Time:	15/11/2012 11:05:13
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 16:32:19
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	1717 DOONAN RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	4	Dispatch Time:	15/11/2012 11:05:31
Callsign/Rego:	MRIV51	Mobile Time:	15/11/2012 11:24:54
Appliance Type:		Arrival Time:	15/11/2012 11:42:30
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 16:37:48
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	146 MAROOCHY RIVER RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	5	Dispatch Time:	15/11/2012 11:32:06
Callsign/Rego:	MA5	Mobile Time:	15/11/2012 11:44:47
Appliance Type:	Officer transport	Arrival Time:	15/11/2012 11:49:38
Description:	Operator Addition	RTS Time:	15/11/2012 16:46:38
Primary Capability:		To Station Time:	
Org Unit:	NC5 NC - Gympie Command	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	6	Dispatch Time:	15/11/2012 11:50:01
Callsign/Rego:	457A	Mobile Time:	15/11/2012 12:04:21
Appliance Type:	Urban pumper with RCR Capability	Arrival Time:	15/11/2012 12:14:02
Description:	Operator Addition	RTS Time:	15/11/2012 16:25:10
Primary Capability:		To Station Time:	
Org Unit:	NC457 Tewantin	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	7	Dispatch Time:	15/11/2012 11:21:36
Callsign/Rego:	456B	Mobile Time:	15/11/2012 11:27:55
Appliance Type:	Urban pumper with RCR Capability	Arrival Time:	15/11/2012 12:19:40
Description:	Operator Addition	RTS Time:	15/11/2012 15:35:47
Primary Capability:		To Station Time:	
Org Unit:	NC456 Noosa	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	8	Dispatch Time:	15/11/2012 11:50:50
Callsign/Rego:	ZZ650	Mobile Time:	15/11/2012 12:09:34
Appliance Type:	Urban pumper with RCR Capability	Arrival Time:	15/11/2012 12:20:52
Description:	Operator Addition	RTS Time:	15/11/2012 15:28:15
Primary Capability:		To Station Time:	
Org Unit:	NC0RO NC - Regional Operations	Code 30:	No
Mode:	Branch Attended	Code 40:	No

Attendance No:	9	Dispatch Time:	15/11/2012 11:55:18
Callsign/Rego:	MR22	Mobile Time:	15/11/2012 11:55:23
Appliance Type:		Arrival Time:	15/11/2012 12:31:00
Description:	Operator Addition	RTS Time:	15/11/2012 17:41:25
Primary Capability:		To Station Time:	
Org Unit:	16RUR CALOUNDRA	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	10	Dispatch Time:	15/11/2012 12:20:37
Callsign/Rego:	TINB51	Mobile Time:	15/11/2012 12:20:46
Appliance Type:		Arrival Time:	15/11/2012 12:32:03
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 16:45:18
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	1430 TINBEERWAH RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	11	Dispatch Time:	15/11/2012 11:47:27
Callsign/Rego:	482S	Mobile Time:	15/11/2012 12:04:07
Appliance Type:	Command and communications vehicle	Arrival Time:	15/11/2012 12:46:33
Description:	Operator Addition	RTS Time:	15/11/2012 16:49:49
Primary Capability:		To Station Time:	
Org Unit:	NC482 Caloundra	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	12	Dispatch Time:	15/11/2012 12:36:04
Callsign/Rego:	YAND51	Mobile Time:	15/11/2012 12:36:17
Appliance Type:		Arrival Time:	15/11/2012 12:53:58
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 17:09:28
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	481 YANDINA NORTH ARM	Code 30:	No
Mode:	RURAL Attended	Code 40:	No

Attendance No:	13	Dispatch Time:	15/11/2012 11:53:36
Callsign/Rego:	473A	Mobile Time:	15/11/2012 11:55:56
Appliance Type:	Urban pumper with RCR Capability	Arrival Time:	15/11/2012 12:54:16
Description:	Operator Addition	RTS Time:	15/11/2012 15:11:02
Primary Capability:		To Station Time:	
Org Unit:	NC473 Nambour	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	14	Dispatch Time:	15/11/2012 12:41:53
Callsign/Rego:	TINB41	Mobile Time:	15/11/2012 12:41:59
Appliance Type:		Arrival Time:	15/11/2012 13:00:33
Description:	Rural Appliance - Light	RTS Time:	15/11/2012 16:40:34
Primary Capability:	Light Appliance	To Station Time:	
Org Unit:	1430 TINBEERWAH RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	15	Dispatch Time:	15/11/2012 12:54:40
Callsign/Rego:	EUMU51	Mobile Time:	15/11/2012 12:54:49
Appliance Type:		Arrival Time:	15/11/2012 13:02:42
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 16:24:56
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	878 EUMUNDI RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	16	Dispatch Time:	15/11/2012 13:38:18
Callsign/Rego:	VALD41	Mobile Time:	15/11/2012 13:38:44
Appliance Type:		Arrival Time:	15/11/2012 14:00:38
Description:	Rural Appliance - Light	RTS Time:	15/11/2012 16:15:17
Primary Capability:	Light Appliance	To Station Time:	
Org Unit:	1006 VALDORA YANDINA	Code 30:	No
Mode:	CREEK RURAL Attended	Code 40:	No

Attendance No:	17	Dispatch Time:	15/11/2012 13:38:36
Callsign/Rego:	VALD51	Mobile Time:	15/11/2012 13:38:53
Appliance Type:		Arrival Time:	15/11/2012 14:00:48
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 16:15:38
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	1006 VALDORA YANDINA	Code 30:	No
Mode:	CREEK RURAL Attended	Code 40:	No

Attendance No:	18	Dispatch Time:	15/11/2012 13:51:41
Callsign/Rego:	454A	Mobile Time:	15/11/2012 13:58:32
Appliance Type:	Urban pumper with RCR Capability	Arrival Time:	15/11/2012 14:17:39
Description:	Operator Addition	RTS Time:	15/11/2012 16:25:23
Primary Capability:		To Station Time:	
Org Unit:	NC454 Cooroy	Code 30:	Yes
Mode:	Attended	Code 40:	No

Attendance No:	19	Dispatch Time:	15/11/2012 14:19:31
Callsign/Rego:	BLIB51	Mobile Time:	15/11/2012 14:19:37
Appliance Type:		Arrival Time:	15/11/2012 14:45:56
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 17:32:44
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	2012 BLI BLI AND DISTRICT	Code 30:	No
Mode:	RURAL Attended	Code 40:	No

Attendance No:	20	Dispatch Time:	15/11/2012 13:53:45
Callsign/Rego:	483A	Mobile Time:	15/11/2012 13:59:02
Appliance Type:	Urban pumper with RCR Capability	Arrival Time:	15/11/2012 14:49:36
Description:	Operator Addition	RTS Time:	15/11/2012 16:21:19
Primary Capability:		To Station Time:	
Org Unit:	NC483 Kawana	Code 30:	Yes
Mode:	Attended	Code 40:	No

Attendance No:	21	Dispatch Time:	15/11/2012 14:34:36
Callsign/Rego:	BLIB41	Mobile Time:	15/11/2012 14:34:54
Appliance Type:		Arrival Time:	15/11/2012 14:52:37
Description:	Rural Appliance - Light	RTS Time:	15/11/2012 16:52:38
Primary Capability:	Light Appliance	To Station Time:	
Org Unit:	2012 BLI BLI AND DISTRICT	Code 30:	No
Mode:	RURAL Attended	Code 40:	No

Attendance No:	22	Dispatch Time:	15/11/2012 14:19:20
Callsign/Rego:	KURE51	Mobile Time:	15/11/2012 14:40:12
Appliance Type:		Arrival Time:	15/11/2012 15:10:32
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 17:35:14
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	1792 KUREELPA RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	23	Dispatch Time:	15/11/2012 15:03:27
Callsign/Rego:	KIEL51	Mobile Time:	15/11/2012 15:03:39
Appliance Type:		Arrival Time:	15/11/2012 15:30:29
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 16:48:28
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	153 KIEL MOUNTAIN ROAD	Code 30:	No
Mode:	RURAL Attended	Code 40:	No

Attendance No:	24	Dispatch Time:	15/11/2012 14:19:57
Callsign/Rego:	KURE52	Mobile Time:	15/11/2012 15:03:15
Appliance Type:		Arrival Time:	15/11/2012 15:35:23
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 17:34:59
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	1792 KUREELPA RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	25	Dispatch Time:	15/11/2012 14:02:47
Callsign/Rego:	YAND41	Mobile Time:	15/11/2012 14:42:22
Appliance Type:		Arrival Time:	15/11/2012 15:44:43
Description:	Rural Appliance - Light	RTS Time:	15/11/2012 17:03:23
Primary Capability:	Light Appliance	To Station Time:	
Org Unit:	481 YANDINA NORTH ARM	Code 30:	No
Mode:	RURAL Attended	Code 40:	No

Attendance No:	26	Dispatch Time:	15/11/2012 20:29:19
Callsign/Rego:	DOON52	Mobile Time:	15/11/2012 20:29:27
Appliance Type:		Arrival Time:	15/11/2012 21:03:24
Description:	Rural Appliance - Medium	RTS Time:	15/11/2012 23:39:04
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	1717 DOONAN RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	27	Dispatch Time:	16/11/2012 09:54:53
Callsign/Rego:	DOON51	Mobile Time:	16/11/2012 09:55:02
Appliance Type:		Arrival Time:	16/11/2012 10:19:16
Description:	Rural Appliance - Medium	RTS Time:	16/11/2012 13:27:52
Primary Capability:	Medium Appliance	To Station Time:	
Org Unit:	1717 DOONAN RURAL	Code 30:	No
Mode:	Attended	Code 40:	No

Attendance No:	28	Dispatch Time:	15/11/2012 10:45:21
Callsign/Rego:	DOON=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 11:02:05
Primary Capability:		To Station Time:	
Org Unit:	1717 DOONAN RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	29	Dispatch Time:	15/11/2012 11:01:38
Callsign/Rego:	MRIV=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 11:06:41
Primary Capability:		To Station Time:	
Org Unit:	146 MAROOCHY RIVER RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	30	Dispatch Time:	15/11/2012 12:08:58
Callsign/Rego:	VERR=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 12:26:49
Primary Capability:		To Station Time:	
Org Unit:	1667 VERRIERDALE RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	31	Dispatch Time:	15/11/2012 12:08:58
Callsign/Rego:	EUMU=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 12:54:55
Primary Capability:		To Station Time:	
Org Unit:	878 EUMUNDI RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	32	Dispatch Time:	15/11/2012 12:08:58
Callsign/Rego:	TINB=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 12:20:58
Primary Capability:		To Station Time:	
Org Unit:	1430 TINBEERWAH RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	33	Dispatch Time:	15/11/2012 12:08:58
Callsign/Rego:	VALD=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 13:39:10
Primary Capability:		To Station Time:	
Org Unit:	1006 VALDORA YANDINA CREEK RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	34	Dispatch Time:	15/11/2012 12:19:15
Callsign/Rego:	YAND=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 12:36:40
Primary Capability:		To Station Time:	
Org Unit:	481 YANDINA NORTH ARM RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	35	Dispatch Time:	15/11/2012 14:04:04
Callsign/Rego:	FEDE=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 14:07:50
Primary Capability:		To Station Time:	
Org Unit:	758 FEDERAL RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	36	Dispatch Time:	15/11/2012 14:07:01
Callsign/Rego:	KIEL=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 15:14:35
Primary Capability:		To Station Time:	
Org Unit:	153 KIEL MOUNTAIN ROAD RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	37	Dispatch Time:	15/11/2012 14:11:56
Callsign/Rego:	KURE=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 14:20:12
Primary Capability:		To Station Time:	
Org Unit:	1792 KUREELPA RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Attendance No:	38	Dispatch Time:	15/11/2012 14:15:42
Callsign/Rego:	IMAG=	Mobile Time:	
Appliance Type:		Arrival Time:	
Description:	Operator Addition	RTS Time:	15/11/2012 15:31:40
Primary Capability:		To Station Time:	
Org Unit:	1222 IMAGE FLAT COOLOOLABIN RURAL	Code 30:	No
Mode:	Attended	Code 40:	Yes

Other Attendance

Other Agencies Notified? Yes Last updated by: kdellit
 Notified by Firecom? Yes Last updated date: 11/24/12 7:05 PM

Agency	Name	Notification	By Firecom
A56 Electricity		Not Notified	No
A57 Gas		Not Notified	No
A58 Water		Not Notified	No
A59 Police	QPS	Notified & Attended	Yes
A60 Ambulance	QAS	Notified & Attended	Yes
A61 SES		Not Notified	No
A62 Other Fire Service		Not Notified	No
A63 DERM		Not Notified	No
A64 Voluntary Rescue		Not Notified	No
A65 Charities		Not Notified	No
A66 Gov Welfare		Not Notified	No
N/A Fire Investigation Unit		Not Notified	No

Police Attendance

Station Name	Name	Phone Number
Noosa	QPS	

RTI DL RELEASE - DNRM

Event 1 of 1

Exposure Number:	0	HazMat Involved:	No
Firecom Problem Type:	FIRE VEGETATION EXPOSURES	Mob. Property Involved:	No
Incident Type:	162-Scrub or bush and grass mixture fire		
Actions Taken:	150-Extinguish		

Block A

Large Scale Incident			
Most Serious Event	162	Scrub or bush and grass mixture fire	
A9 Method of Notification	71	000 - The reporting person dials 000 or mobile on 112	
A10 Agency/Person Raising Alarm	31	Traveller, passer-by, neighbour	
Callers Name	NOOSA PENGARI STEINER SCHOOL,		
Address	119 Grays Road, Doonan, QLD 4562		
A12 Local Government Authority	SUNSHINE COAST		
A14 Occupant's Name	Noosa Pengari Steiner School		
A19 Complex Type Code	21	Primary and secondary educational use	
A20 Fixed Property Use Code	200	Educational property	
A21 Type of Owner	100	Private	
A22 Type of Occupant	100	Private	
A6 Date of Call	15/11/2012		
A8 Time of Call	10:45:07		
A27 Duties Completed Date	16/11/2012		
A28 Duties Completed Time	13:27:52		
End Date	16/11/2012		
End Time	01:27:52		
Total Incident Time	1 Days, 2 Hrs, 42 Min, 45 Sec		
Latitude	-26.455696		
Longitude	153.029901		
UBD Grid Reference			
iZone Classification	NA		
In urban levy area?	Yes		
ARIA Remoteness			
A39 Number of CABAs Worn at the Incident	0		
A29 Peak num. personnel at scene	26		
A35 Mutual Aid	3	No mutual aid	
A36 Weather Conditions	8	High winds	
A37 Delayed Arrival	08	No delay experienced	
A42 Problem Encountered	75	Difficulty gaining access to incident scene	

Block D

Casualties	0	No injuries or fatalities
Rescues		No rescues
Evacuations		None

Block E

E1 Area of Fire Origin	95	Scrub or bush area, woods, forest
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E2 Occupant/s of Ignition Area	32	Client or customer
E3 Activity in Ignition Area	99	Activity in ignition area, n/c above
E4 Form of Heat Ignition	630	Fireworks
E5 Ignition Factor	700	Operational deficiency; i/i
E6 Type of Material Ignited First	54	Grass, leaves, hay, straw
E7 Form of Material Ignited First	74	Grass, bush & forests, whether growing or dead
E8 Equipment Involved in Ignition	008	No equipment involved in ignition/Not applicable

Cause Determination

Recent similar fires in area?	No
Category of Fire	Accidental
Fire Cause	Incendiary
Fire Cause Description	School using a registered fire works operator conducting a session, set off an alleged faulty fire work that ignited an area of fire, school personnel attempted to extinguish the fire in the bush area but winds were strong and the fire quickly spread in a Sth East direction causing damage to a large area of bush land and 2 caravans on Grays Rd

Block F

F1 Major Firefighting Force	14	Volunteer, (non-retained) brigade/unit
F2 Initial Attack	11	Permanent, full time
F3 Method of Initial Attack by RA	52	Appliance Hose Lines - High pressure hose reel
F4 Method of Initial Attack by Other Persons	23	Manual fire fighting - Sand rakes & rake hoes
F5 Major Method of Extinguishment	52	Appliance Hose Lines - High pressure hose reel
F6 Major Extinguishing Medium	14	Water with A class foam
F7 Number of Portable Extinguishers Used	0	
F8 Number of Portable Pumps Used	2	
F9 Number of Hose Reels Used	40	
F10 Number of 35-50mm delivery lines used	0	
F11 Number of 60-75mm delivery lines used	0	
F12 Number of monitors used	0	
F13 Amount of Foam Concentrate Used (ltrs)	100	
F14 Amount of Dry Chemical Used (kgs)	0	
F15 Water Supply	1	No reticulation in proximity and no on-site supply available
F16 Water Supply Method	3	Water transported by Reporting Authoritys vehicle

Block G

G1 Estimated Date that Ignition Occurred	15/11/2012
G2 Estimated Time that Ignition Occurred	08:43:00
G3 Area Burnt (hectares)	10ha to less than 50ha
Was control line effective?	No
G5 Fire Danger Rating	3 High
G4 Fire Restrictions	1 No fire restrictions or total fire bans in force
G6 Permit	2 Permit issued; conditions not complied with
G7 Vegetation Type	00 Vegetation type not reported
G11 Fire Prevention	00 Fire prevention undetermined (undetermined or not reported)

Block H

H1 Estimated Dollar Loss	2500
H2 Estimated Value of Property	30000000
H3 Estimated Value of Contents	5000000
H5 Insurance	0 Property & contents insurance undetermined

H6 Total number of mobile properties involved in the fire	0
H7 Total number of structures involved in the fire	2
H8 Property Owners Name	129 Grays Rd Doonan
Property Owner's Address	129 Grays Road, Doonan, QLD 4562
Phone Number	
Hay Fodder Lost (Tonnes)	0
Livestock Lost	0
Km Fence Line Damaged	0
Brigade Firefighting Equipment Lost?	Yes

Event Comments

Responded to a grass/wildfire at the Steiner School, on route we were diverted to 119 Grays Rd Doonan to a house under threat from the fire, on arrival we placed the appliance in the rear yard of 119 Grays Rd due to distance from the hard stand to the fire, Urban appliance 456A went into action with High pressure hose reel and a Rural appliance from Doonan arrived and also assisted with hose reels off that appliance. My self as the OIC then headed sth on foot to property 129 Grays Rd to ensure that people were not still on site, i instructed the occupants to drive their vehicle up the driveway to Grays Rd and evacuate the premises. As the fire approached 129 Grays Rd i requested that appliance 456A respond to my location, on attempting to move the appliance the appliance became stuck on soft ground and required a towing provider to assist with its removal. The fire then rapidly grew in size and ferocity and i requested additional appliances to my location and made contact with ACDR Thompson who then on arrival assumed the OIC role and i took the role of operations. Multiple appliance were utilised over a 26 hour period to bring the fire under control. 2 fixed in situ old Caravans were lost at 129 Grays Rd as well as 2 water tanks sustaining heat and flame damage and also a tin shed on the same property. This was the extent of the damage as far as i was made aware.

kdellit
24/11/2012 21:19

RTI DL RELEASE FORM

15. Nov. 2012 12:52

Kc's FIREWORKS

NON. MARTIN REF 120875 URGENT PLEASE

Part 2 — Fireworks Post-Display Notification

Part 2 is to be completed by the licensed fireworks contractor or representative who conducted a fireworks display after conducting that display. One form is to be completed for EACH display. This form must be completed and submitted to NR&M within 7 calendar days of the display, even if an incident did not occur at the display. In addition, it is a legal requirement to immediately notify the Chief Inspector of Explosives through an Inspector of Explosives of an explosives incident and details of any associated loss of life, personal injury or property damage (refer Explosives Act 1999 S.55).

1 Fireworks Contractor Details

Name: s78B(2) - Personal Information; Licence No: 0407177; Contact Telephone Number: Section 78B(2) RTI Act

2 Display Details

Date: 15/11/12; Time: 10 AM; Location: [Blank]

The display was conducted using the fireworks and clearance distances described in Part 1 — Fireworks Display Notification: [X] Yes [] No -> If no, please attach a list describing the changes

3 Explosives Incident Details

An "explosives Incident" refers to any of the following events involving an explosive (refer Explosives Act 1999 Schedule 2): (a) an explosive is, or appears to have been, lost or stolen; (b) an accidental explosion, fire or spillage; (c) the death or injury to a person; (d) unexpected damage to property; (e) an event, including a misfire, which has the potential to cause any of the events in (a) to (d), other than an event that normally happens when handling or using an explosive.

1. An explosives incident was associated with the display described in "Display Details": [X] Yes [] No -> If no, go to "Declaration by Display Operator"

3. The explosives incident involved the following event(s) (cross all applicable): [] Fireworks malfunction [] Injury/death [X] Property damage [] Other

4. Describe the incident, including locations, names of person affected and details of fireworks involved (attach sheet if insufficient space): A FIREWORK FIRED LOWER CAUSING REMBERS INTO LONG GRASS WHICH RESULTED IN A FIRE I ATTEMPTED TO EXTINGUISHE BUT WAS UNSUCCESSFUL FIRE BANGADE WERE CALLED TO FIGHT FIRE - ALL PROCEEDURES AS PER OWN SAFETY

5. Outline actions taken to address the incident (eg, fireworks supplier notified, disposal of misfires) (attach sheet if insufficient space): MANAGEMENT & TONE SCHOOLS EVOLUTION PROCEDURES WERE CALLED OUT IN FULL.

4 Declaration by Fireworks Contractor or representative

I certify that the above information and all attachments are true and correct to the best of my knowledge.

Signatur: [Blank]; Name: [Blank]; Licence No: 0407171; Date: 15/11/12

Once completed, this document acts as the fireworks contractor's and fireworks operator's record. You are required to keep a copy of this document. When completed, please fax this notification and any attachments to the applicable NR&M Office:

- Fax Numbers: Southern Region: 3405 5345; Central Region: 4938 4331; Northern Region: 4760 7400

Office Use Only: Date received: [Blank]; Entered in database: [] Yes [] No; Notification sighted by Inspector: [] No [] Yes -> Name: [Blank]; Sign: [Blank]; Date: [Blank]

SINCERE APOLOGY FROM KC'S

We at KC's Fireworks Displays Aust Pty Ltd have been conducting Fireworks displays for over 27years, 2000 displays and in this time we have never had any major unexpected event.

Yesterday's bushfire sparked by debris from a firework was beyond our control irrespective of the fact of numerous procedures being in place and having been used for such an incident as yesterday's.

We can certainly understand and sympathise with the local resident's displeasure and upset at what occurred yesterday.

Fireworks are used in these surrounds at hundreds of schools around Australia, however they should not be there to disrupt local households and property and for this we sincerely apologize.

The school was in no way responsible for this unfortunate incident yesterday that has caused much damage to the surrounds of that area.

Obviously, no further fireworks will be conducted at that site and we genuinely hope that the surrounds will return to normal in the near future.

Clive Featherby
OPERATOR
KC'S FIREWORKS DISPLAYS AUST PTY LTD

RTI DL RELEASE - DNRIM

Janet Molloy

From: Frank Wilkie <[REDACTED] sch4p4(6) Personal information>
Sent: Tuesday, 11 December 2012 9:34 PM
To: Janet
Subject: Re: chronology of events

Hello Janet

The timeline on November 15 was as follows

If more, or other types of, detail is required please let me know

Yours in good faith

Frank

9.30am [REDACTED] s78B(2) arrives at school hall car park and is directed to oval
9.40 [REDACTED] s78B(2) begins preparations for demonstration
10.00 [REDACTED] s78B(2) begins safety briefing and talk on the materials and processes involved in the production of gunpowder and various types of fireworks
10.30 After directing students to a safe distance, Clive commences demonstration with ground-based fire works
10.40 First aerial fireworks are set off
10.45 [REDACTED] s78B(2) notices smoke in bush. Fire commences. Sarah raises fire alarm. Students ordered to Hall.
11.00? (approximate only) First fire brigade unit arrives

On 11/12/2012, at 10:07 AM, Janet wrote:

RTI DL RELEASE - DNRM



To be completed by the fireworks operator prior to conducting any fireworks display. One form is to be completed for EACH display.

NOTE: It is a legal requirement to notify the Department of Mines & Energy (DME), in writing, of any fireworks display at least 7 calendar days prior to the intended display. Failure to comply with this requirement may result in the display being cancelled and/or a review of the operator's licence.

Office Use Only

Date received: 8/11/12 Notification Sent: Yes No

7 days notification requirement met: Yes No 7 day fax sent: Yes No

Acknowledgement sent: Yes No Entered in database: Yes No

License No: 0407071 Licence conditions: CP, SC, ODS

Notification sighted by inspector:
No Yes Name: N. Schap (6) Personal information Date: 11

Display inspected by inspector: Yes No 9-11-12

1. Details of Operator or Company Conducting Display

Name of contractor or company representative: s78B(2) Company conducting display (if applicable): KC's Fireworks Displays Aust P/I ABN (if applicable): 42 072 8 61 959

Licence number: 0407071 Contact Phone Number: (Section 78B(2) RTI Act) Current insurer: Australis Group Underwriting Insurance policy number: K 5070-0053202

- A copy of a current public liability insurance policy specifying fireworks relating to the operator or company has been supplied to DME: Yes No If no, please attach a copy of the current policy
- List details of all persons assisting in the use of fireworks (note that all unlicensed assistants must be under the direct and personal supervision of a licensed shotfirer) (attach extra sheet if necessary):

Name	Licence Number (if operator or shotfirer)
Dave George	

2. Notifications/Administration

- The following agencies/persons have been notified of the proposed display (tick all applicable):

- Fire Brigade (mandatory)
 Neighbours (mandatory)
 Air Sea Rescue
 Local Council
 Water Police
 Queensland Transport
 Port Authority
 Coast Guard
 Land Owner/Agent and occupier
 CASA (displays where fireworks are launched within 5km of an aerodrome, or could attain heights greater than 90m, or where the display of lights could endanger the safety of aircraft)

- The land owner/agent and occupier has granted approval for the use of the land:
No Yes If yes, name of land owner/agent and occupier: All Saints Anglican School Staff and Administration

- Event organiser details:

Name: s78B(2) Organisation: Noosa Pengari Steiner School, 86 Nyell Rd Contact phone number: (Section 78B(2) RTI Act)

15/11/2012, 10am, Noosa Pengari Steiner School, 86 Nyell Road, Doonan.

Continued over page...

Fireworks Display Notification continued... page 3 of 4

Date: **15 / 11 / 2012** Time: **10.00am** Location (street address where possible): **Noosa Pengari Steiner School, 86 Nyell Rd Doonan**

List of Fireworks used in Display - (Common fireworks and required minimum clearance distances are shown: where not already shown in the following table, minimum clearance distances are to be calculated for the largest of each type of firework used. If the operator chooses to supply his/her own list, sizes, quantities and minimum clearance distances must be shown on that list) (attach extra sheet if necessary):

Type of Aerial Firework	Size (mm)	Calculated min clearance distance (m)	QTY
Aerial Shells - single break	50	50	
	65	65	120
	75	75	
	100	100	
	125	125	
Aerial salutes	65	65	
	Mines 75	75	
Aerial shells - other (eg. multi break, peanut - please specify)			

Type of Ground/Indoor Firework	Largest size (mm)	Min clearance distance based on largest size (m)	QTY
Battle of colour	19	35	12
Strobing Thunderking	19	38	15
Asst Candles	12	35	60
Fountains/Gold/Crackle	Set	35	25
Asst Multishot	19	38	60
Boxed Items	25	50	4
Spinning Wheel	Set	35	
Strobes	Set	35	15
Saturn Missiles	10	35	25
Z Cakes	25	50	1

Fireworks supplier (name and address, attach sheet if more than one):

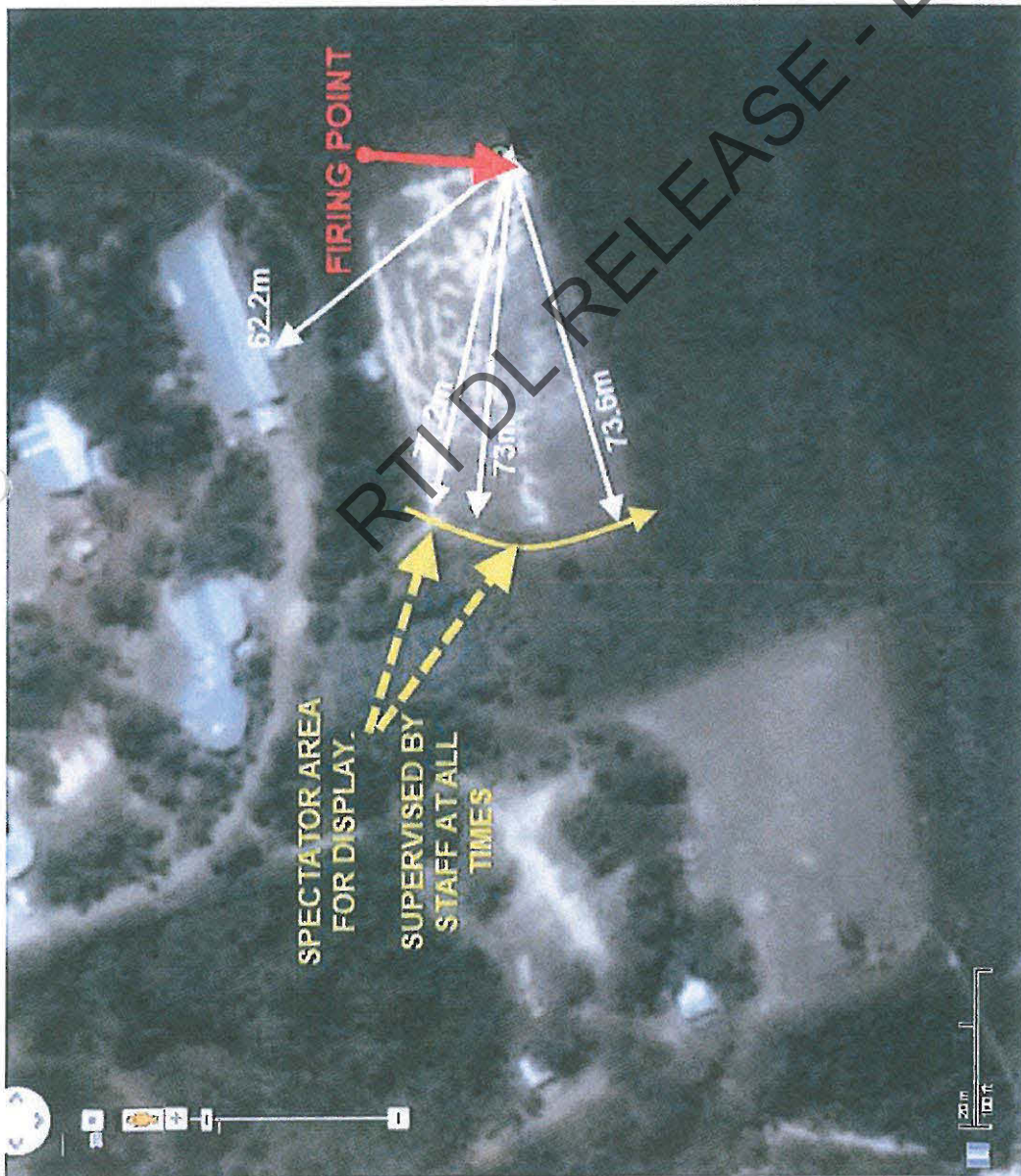
KC's Fireworks Displays Aust P/L & Hop Kee Pyrotechnics- Acme Fireworks/Fireworks Australia

4. Safety Declaration (Please tick all applicable boxes and provide supporting statements where necessary)

- During the set up and conduct of the display, persons not directly associated with the conduct of the fireworks display will be kept at a distance from the fireworks which meets or exceeds the minimum clearance distance specified in Safety Requirements: Yes No If no, written exemption from Chief Inspector of Explosives required
- Fireworks will be angled towards spectators: No Yes If yes, the minimum clearance distance will be increased by: m
- Wind conditions at the time and location of display will be taken into consideration when calculating min clearance distance: Yes No
- How many persons will assist the shotfirer in the preparation, conduct and clean-up of the display?
- This display meets the requirements of the EPA Guideline for the Abatement of Nuisance Noise from the use of fireworks (copy available from website www.dme.qld.gov.au): Yes No If no, written exemption is required from Explosives Inspectorate
- All operators and assistants will wear personal protective equipment required in Safety Requirements: Yes No
- Name of first aid attendant for display:
- Vehicle transporting fireworks to the display site complies with the Australian Explosives Code (including extinguishers): Yes No If no, written exemption from Chief Inspector of Explosives required
- Adequate fire fighting equipment is available at the site in the form of (describe):
- Metal equipment will be used in this display: No Yes If yes, written exemption from Chief Inspector of Explosives required

Continued over page...

Noosa Pengari Steiner
School
86 Nyell Road
Doonan



RT/DL RELEASE - DNRM

Release

Casey, Danny

From: KCS Fireworks Admin [admin@kcsfireworks.com]
Sent: Thursday, 8 November 2012 1:52 PM
To: Casey, Danny; Baker Sally-Ann; SROexplosives
Subject: Sorry for the late notice...FDN for Noosa Steiner School
Attachments: FDN Noosa Steiner School 15th Nov 2012.doc; MAP Noosa Steiner School.pdf

Hi all,

Please find attached a copy of FDN and map for the Noosa Steiner School demonstration.

They were a little late in informing us thus, please can you acknowledge this one on short notice.

If you have any questions regarding these documents, please do not hesitate to contact me.

Kindest Regards

Kim George

on behalf of

Clive Featherby's

KC's Fireworks Displays Aust Pty Ltd

PH: (07) 54945089 FAX: (07) 54945091

www.kcsfireworks.com

Spectacular Aerial & Ground Displays for EVERY Occasion - Anywhere - Big or Small

RTI DL RELEASE - DNRM

Maroochydore, Queensland
November 2012 Daily Weather Observations



Australian Government
Bureau of Meteorology

Date	Day	Temps		Rain	Evap	Sun	Max wind gust				9am				3pm							
		Min °C	Max °C				mm	mm	hours	Dirn	Spd	Time	Temp	RH	Cid	Dirn	Spd	MSLP	Temp	RH	Cid	Dirn
1	Th	13.0	28.4	0.8			NNE	48	15:22	23.8	71		NE	19	1015.3	25.3	64		NNE	33	1009.7	
2	Fr	18.2	32.1	0.2			SE	54	14:05	28.2	51		NW	20	1007.6	24.2	59		SE	37	1010.4	
3	Sa	20.5	25.8	0			SE	41	00:20	21.2	70		E	17	1017.7	24.2	52		ESE	20	1016.2	
4	Su	18.8	25.2	0.8			E	33	00:06	22.2	58		E	13	1020.5	23.7	52		E	15	1017.7	
5	Mo	12.7	25.7	0			E	30	12:01	22.8	60		SE	15	1020.7	24.3	54		E	19	1018.2	
6	Tu	13.0	26.8	0			ESE	28	12:09	23.8	54		ESE	17	1020.0	24.1	54		E	17	1017.5	
7	We	12.9	26.6	0			NE	26	12:58	23.1	62		E	11	1017.8	24.7	63		E	17	1014.6	
8	Th	16.6	27.9	0			NNE	41	13:26	26.0	67		NNE	24	1016.2	25.1	65		NNE	30	1013.9	
9	Fr	19.6	28.4	1.0			NNE	46	13:45	26.4	68		NNE	22	1017.4	25.9	61		NNE	35	1014.0	
10	Sa	19.8	24.5	1.2			SE	39	13:37	23.0	78		S	Calm	1017.0	20.1	86		S	19	1014.8	
11	Su	17.1	25.2	28.0			SSE	67	12:47	19.9	79		S	31	1020.8	23.0	57		SSE	39	1019.4	
12	Mo	16.2	25.7	1.6			SSE	52	00:06	23.0	47		SSE	28	1024.1	23.6	50		ESE	24	1021.5	
13	Tu	11.1	25.9	0.2			NNE	31	11:57	22.9	49		E	13	1022.5	24.5	49		NE	22	1018.7	
14	We	12.5	26.7	0			NNE	41	12:06	24.6	58		NNW	17	1020.2	24.8	54		NNE	31	1016.5	
15	Th	14.2	27.3	0			NNE	50	16:11	26.8	57		N	19	1017.3	25.7	62		NNE	35	1013.0	
16	Fr	17.7	32.1	0			N	54	14:52	26.8	50		NW	24	1013.0	26.8	64		NNE	39	1007.8	
17	Sa	19.6	27.6	0			NNE	37	16:32	25.5	71		NE	13	1011.9	26.4	73		NE	22	1009.7	
18	Su	18.8		9.4						23.1	83		NNW	19	1010.6	27.5	68		N	26	1005.9	
19	Mo									27.8	64		NW	17	1011.4							
Statistics for the first 19 days of November 2012																						
Mean		16.2	27.2							24.2	63			17	1016.9	24.7	60			26	1014.4	
Lowest		11.1	24.5							19.9	47			Calm	1007.6	20.1	49		E	15	1005.9	
Highest		20.5	32.1				SSE	67		28.2	83		S	31	1024.1	27.5	86		#	39	1021.5	
Total				43.2																		

RTI/DL RELEASE UNDER AIA

Observations were drawn from Sunshine Coast Airport (station 040861)

IDCJDW4081_201211 Prepared at 00:26 UTC on 19 Nov 2012
Copyright © 2012 Bureau of Meteorology
Users of this product are deemed to have read the information and accepted the conditions described in the notes at
<http://www.bom.gov.au/climate/dwo/IDCJDW4081.pdf>



Department of
Natural Resources and Mines

PRELIMINARY REPORT ON POST FIREWORKS DISPLAY FIRE ON 15 NOVEMBER AT NOOSA PENGARI STEINER SCHOOL, NYELL ROAD DOONAN INVOLVING KC FIREWORKS DISPLAYS AUSTRALIA PTY LTD

The information in this preliminary report has not been subjected to extensive investigation. It may identify possible contributors to the incident and non compliant matters. Its purpose is to inform the department of the basic facts and assist in the direction of nature and cause and non compliance investigations.

Task Tracker References:

Incident TT 12 3322

LOCATION

1. Noosa Pengari Steiner School, 86 Nyell Road, Doonan Qld

TIME AND DATE

2. 10:40 on 15/11/2012

DESCRIPTION OF INCIDENT

3. A fireworks presentation to year 7 science students delivered by KC Fireworks s78B(2) s78B(2) Around two minutes into display s78B(2) observed that a fire had started in nearby scrub approximately 35 meters away. He stopped the presentation and tended to the fire. s78B(2) was unsuccessful in putting the fire out and it rapidly escalated. QFRS were notified, attended the scene and extinguished fire.

FATALITIES/INJURIES/DAMAGE

4. No fatalities or injuries. Approximately 5 hectares of bushland burnt. A neighbouring shed and caravan were consumed.

EXPLOSIVES PRODUCT

5. Ground fireworks

LICENCES AND ENTITIES

6. KC Fireworks Displays Australia P/L. License number 0407071

MINE OPERATOR IF APPLICABLE

7. N/A

SAFETY ALERT (IDENTIFY IF A SAFETY ALERT WAS ISSUED)

8. N/A

CONTRIBUTORS TO INCIDENT (LIST POSSIBLE CONTRIBUTORS)

9. Location of display was within 35 meters of dry bushland. Wind may have been a factor.

NON COMPLIANCES(LIST POSSIBLE NON COMPLIANCES)

10. Not clear if operator was being assisted by spotter(s) or if sufficient fire suppression appliances were immediately available.

11. Safe distances supplied in notification are related to spectator safety and not relevant to surrounding environment with dry bushland close to firing point.

RECOMMENDATIONS

12. Conduct a more detailed investigation focussing on operator's practice and procedure. It is currently unclear if spotters were appointed and whether sufficient fire suppression appliances including fire extinguishers or water were located in an appropriate position.

John Forcier
Senior Explosives Inspector

20/11/2012

Attachments:

1. KC Fireworks submitted notification and display plan
2. Inspector's post incident sketch plan
3. Photographs of incident scene
4. Short 360° video of scene from fire ignition point

sch4p4(6) Personal information



Fireworks Australia - After hours contact number

QUALITY AND COMPLIANCE ASSURANCE - RETEST NOV 2012

ITEM CODE Item Code is also unique batch identifier	NAME Effect and trade name	PASS/FAIL After batch test or retest	DURATION Duration of effect	LABEL Label complies with minimum requirements	FUNCTION Item operates safely as per design	HEIGHT/ WIDTH Ceiling and max width dimensions of effect - not fallout	DEBRIS GMS Max observed debris particles in grams if applicable	NOTES
C615	VERSES OF VICTORY 50 SHOT	PASS (RETESTED)	<10 SECS	P	P	35m Height 25m Wide (V shape effect)	Debris consists of cardboard and clay particles. Max observed weight 5 gram per piece 6m from launch point.	On the retest of 6 items there was no item observed to fail or to have effect touch the ground.

Please ensure items are carefully secured. Minimum safety distance of state regulations apply. Transport as per AEC. MSDS available from Fireworks Australia. Please use PPE and enforce generous exclusion zone.

FIREWORKS AUSTRALIA**MATERIAL SAFETY DATA SHEET & TECHNICAL DATA SHEET****MULTISHOTS SMOKE CAKE****BATCH# C615****General Information****Importer/Supplier:**

Fireworks Australia (Importers) Pty. Ltd.
PO Box 7185, Watson, ACT 2602

Emergency Contact:

Fireworks Australia
Ph. (02) 4845 1052 mobile 0444 444 444 (6) Personal information

Identification**Proper Shipping Name:**

FIREWORKS

UN Number:

0335

Hazard Division:

1.3G

Product Name:

Verses of Victory. 50 Shot Smoke Cake Orange.

Use:

Display firework for use in public entertainment and special effects applications. Special daytime effect – colour smoke.

Description and Function

Multishots supplied by Fireworks Australia are classed as Ground Level fireworks in accordance with AS2187.4-1998 and most State/Territory Regulations. Alternative names for multishots include cakes, multishot cakes, combination batteries and barrages. Items are labeled with Trade Names and/or catalogue numbers (C615 has both). C615 consists of 50 rolled cardboard tubes (ID30mm) assembled in a V pattern. A single fuse and/or igniter assembly causes tubes to fire in sequence in V shape. Effect is an orange comet to crackling break.

Caliber	30mm
Explosive Content Per Shot (tube)	18g
Effect Height*	25m

Notes: The pattern is in a V- shape so the effect height varies slightly but averages about 25m height and effects width of 20m.

Hazardous Ingredients**Black Powder**

Major (25-50%)

Potassium Nitrate

Major (50-75%)

(Lifting and Burst charge)

Sulfur

Minor (10-25%)

Charcoal

Minor (10-25%)

Salute / Flash Powder

Minor (<3%)

Oxidiser ¹

Major (50-75%)

(reports and salutes)

Fuel ²

Major (25-50%)

1 Oxidising agents typically used are potassium perchlorate and barium nitrate.

2 Fuels typically used may be aluminium, magnesium, Mg/Al alloy powders, sulfides and sulfur.

Stars & Effects Major (25-50%)

Stars and other effects may contain the following:

- Oxidising agents (such as potassium nitrate, potassium perchlorate)
- Barium, strontium, boron, antimony, copper, lead, fluorine compounds
- Metal powders (such as aluminium, magnesium, Mg/Al alloy, titanium, ferrosilicon, silicon)
- Minor quantities of other toxic substances, anti-caking agents, pH buffers and preservatives.

Fire and Explosion Hazard

Autoignition Temperature: >300°C

Extinguishing Media: Not applicable.

Unusual Fire and Explosion Hazards: If exposed to fire articles will explode and propel burning projectiles. There is a risk of explosion if large quantities of fireworks are involved in a fire.

Special Fire Fighting Procedures: Do not attempt to fight a fire involving Multishots.

HAZCHEM Code E

Safe Handling Information

Handling: Handle with care. Do not drop or throw. Keep dry. Do not smoke while handling. Keep ignition sources at least 6m away.

Storage: Store in a cool, dry place. Avoid storage above 60°C. Store in accordance with State/Territory Regulations and AS2187.1.

Transport: Transport in accordance with State/Territory Regulations and the Australian Explosives Code.

Spills, Leaks and Disposal: The hazardous material is sealed inside the article and no leakage should be possible unless the article is damaged. Small quantities of explosive composition should be swept up with a natural fibre brush and disposed of in a bucket of water. Entire units may be disposed of by soaking in water for several days and burying or burning the residue. Burning should be carried out only by competent personnel in a properly designed and approved facility. Do not mix with other refuse or send to landfill.

Precautions For Use

General: These products are for trained, competent fireworks display operators only. Possession or use of this product without appropriate licences and/or permits is illegal. Multishots are for outdoor use only. Use in accordance with the instructions on the label, AS2187.4-1998 and State/Territory Regulations. All multishots, other than those certified as Shopgoods Fireworks complying with AS2187.3, must be provided with adequate support to prevent the possibility of their falling over or being repositioned during operation. (The use of 1-2 wooden or round steel pegs and strong adhesive tape and/or steel wire is recommended.)

Ignition: Manual with a portfire or may be fitted with an electric fusehead by the operator for electric firing.

Malfunctions

Inspect each Multishot before use. Discard if there is evidence of any loss of clay or plaster plugs, leakage of lift charge, moisture or any other damage. Ensure that labels are not upside-down, nor any firing tubes assembled upside-down. Inspect for significantly misaligned firing tubes, especially in fan and similar types. Insufficient or damaged lift charge may result in a pyrotechnic effect (insert or shell) exploding inside the firing tube and causing remaining tubes to fire in unsafe directions. Faulty internal connecting fuse may cause tubes to misfire. All misfires should be dealt with in accordance with AS2187.2-1993 Appendix H.

Exposure Limits:

N/A Hazardous material is sealed inside the article.

Ventilation:

N/A (for outdoor use only)

Personal Protection:

Persons using these products should wear flame resistant, full-cover clothing, protective footwear, eye, hearing and head protection. Persons handling the product should wear natural fibre clothing and anti-static footwear.

Flammability:

Avoid ignition sources within 6m. Keep away from flames.

Reactivity Data

Stability:

Stable.

Incompatibility:

Do not store with any other Dangerous Goods except articles (not substances) of Class 1, Compatibility Groups C, D, E, G and S.

Hazardous Decomposition

Products:

When ignited the following major decomposition products may form: carbon dioxide, carbon monoxide, oxides of nitrogen, oxides of sulfur, heavy metal compounds and other toxic substances. Avoid breathing smoke from Multishots.

TECHNICAL DATA

Caliber	Burst Diameter	Effect Height	Duration
30mm	4m	25m	7 seconds

Notes: Burst diameters above are typical approximate distances that stars are projected laterally at their maximum height. This data is based on a batch test of 6 pieces.

Safety / Clearance Distances

The following are minimum safety distances recommended by Fireworks Australia. If State/Territory Regulations require a different distance, the larger of the two should be used.

ITEM	Clearance Distance
C615	+60m

The safety distances above must be increased to allow for wind and elevated firing positions when appropriate.

C615 is a V shape effect so lateral clearance should be increased to 120m. Multishots with angled firing tubes (fan, Z, W or V-shaped configurations) must have increased clearance distances (at least double those above) in the direction(s) in which the tubes are pointing.

Other Technical Data:

Total NEQ: 900gram

Net Weight per Item: 8kg

Per Tube NEQ: 18 gram.

Carton Batch Identifier: C615

Ignition Type: Visco type fuse leads into quickmatch. Fuse has paper cover.

Paper cover: Metallic foil over paper top.

Carton Packing: 1 per carton

DG Class: 1.3G UN0336

RTI DL RELEASE - DNRIM

FIRST AID

SMOKE INHALATION

- Remove patient to fresh air, lay down & rest.
- If patient is not breathing, make sure airway is clear and apply artificial respiration.
- Keep patient warm.
- Call Doctor at once or transport to Hospital.

EYES

- Hold eyes open and wash continuously with water for 15 minutes.
- Transport to Doctor or Hospital.

SKIN

- Remove all contaminated clothing including shoes.
- Wash affected area with water using soap if available.

BURNS

- Immerse affected area in cold water for 10 – 15 minutes.
- Bandage lightly with sterile dressing.
- Treat for shock as required.
- Transport to Hospital or Doctor.

FIRST AID ADVICE AS PER AUSTRALIAN EXPLOSIVES CODE 2ND ED.

MAIN LESSON PLAN PROFORMA

Main Lesson CHEMISTRY, combustion		Number of lessons 10-15
Class: 7	Teacher: s78B(2)	Date: November, 2012
Aim	This introductory chemistry-lesson explores the basic chemical process of <i>fire (combustion)</i> , the transformations it initiates, its relationship to the function of the human body and our environment.	
Rationale	<ul style="list-style-type: none"> To provide engaging and challenging material to help develop the students' evolving conceptual abilities and expanding interest in the physical world. 	
Objectives	<p>Students to gain an introduction to the basic chemical process of <i>fire (combustion)</i>, the transformations it initiates, relationship to processes within the human body and some of the consequences for our environment.</p> <p>Students will expand their <i>knowledge and understanding</i> of the chemical process of combustion, including the Lime Cycle.</p> <p>Students will develop skills necessary to undertake safe investigations into combustion.</p> <p>Students will develop the skills to <i>communicate</i> their understanding of combustion's chemical processes and related experiments.</p> <p>Students will demonstrate their understanding via <i>participation</i> in various class activities and through reflection upon these activities</p>	
Learning Outcomes	<p>1.2 Students identify the effects of energy in their daily lives.</p> <p>1.3 Students make links between the way they use energy and the immediate source of that energy.</p> <p>D5.5 Students outline the energy changes that occur in simple physical and chemical changes and link their observations to scientific understandings about the</p>	

	<p>conservation of energy.</p> <p>Key learning Outcomes for year 7 Science as specified Queensland Studies Authority</p>
Assessment Strategies	<p>Participation in class discussions, experiments</p> <p>Accuracy of note-taking, summarising and comprehension</p> <p>Safe personal conduct during activities</p> <p>Accuracy and clarity of written and verbal reporting</p> <p>Demonstration of accrued knowledge and insights via verbal and written quizzes</p> <p>Care and effort applied to the compilation of Main Lesson Book</p>
Evaluation	

RTI DL RELEASE - DNRM

Safety Alert



Explosives

Explosives Inspectorate

Safety Alert No. 64 | 24 January 2013

Fireworks start bushfire

What happened?

Bushland caught fire during a school fireworks lesson, burning out 5 hectares of reserve and destroying a caravan and shed. A licensed fireworks contractor and operator was teaching school students on a hot summer day. The fireworks were being fired individually on their school oval when the adjacent bushland caught fire and the property was destroyed. No-one was hurt.

Recommendations

1. Consider local conditions, such as vegetation and its condition, wind speed and wind direction, when selecting the firing location and the fireworks to be used. The hazardous debris resulting from fireworks together with the summer weather, breezes, dry grass and foliage adjacent to firing points create a significant risk of fire.
2. Calculate clearance distances and exclusion zones according to the conditions on display day so that hazardous debris can be contained. (Hazardous debris can include hot burning particles, burning fireworks effects, casing fragments, components of fireworks effects and unignited components.) Establish clearance distances relative to spectators and also to vegetation within the exclusion zone. (Additional distances above the minimum calculated clearance distance provide the additional margin of safety)
3. Conduct an on-site risk assessment immediately prior to firing the fireworks and reassess the set up.
4. Specific recommendations for fireworks contractors include:
 - a. review your emergency response plan to ensure that all operators and assistants are fully trained and the plan can deal with an emergency
 - b. provide enough firefighting equipment and people to control any fire outbreak at the site, including using spotters to identify and put out fires
 - c. review risk control measures based on risk assessments of all activities including setting-up, managing the display and post-display activities
 - d. review safety management systems and ensure they are followed.



Fireworks debris in bushland



Burnt out bushland

Authorised by **Geoff Downs** | Chief Inspector of Explosives

This alert is a guide only and is issued to promote safety through experience. It is not to be taken as a statement of law and must not be constructed to waive or modify any legal obligation.

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

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sch4p4(6) Person Information

KC's FIREWORKS DISPLAYS
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The Risk - Things that may happen. What is it and How can it happen?	Likelihood	Consequences	Risk Rating	Risk Treatments	Risk Rating After Risk Treatments	Officer/Area responsible for implementation of Risk Treatments
Injury from fireworks	Possible	Major	E-76	Ensure all Safety Management procedures are followed. Check all items to ensure they are securely fastened. Only use approved and tested products.	L-16	Event Organiser / Fireworks Contractor
Accidental ignition of fireworks during transportation	Unlikely	Major	E-88	Package and store items in manufactures cartons or rubber/wood lined boxes secured in vehicle	L-16	Event Organiser / Fireworks Contractor
Possible ignition or explosion during setup of site	Unlikely	Major	E-88	Strictly no naked flames. Keep qty of fireworks to a minimum; ensure safety covers of fuses etc kept on until show time. Ensure minimum clearance distances kept at all times	L-16	Event Organiser / Fireworks Contractor
Prevention and Management of un-authorised persons entering display site	Possible	Major	E-92	Fence off area, ensure adequate signage and security. Monitor area with security and operators and spotters.	L-16	Event Organiser / Fireworks Contractor
Major explosion or malfunction or rack separation	Possible	Major	E-92	Ensure use of PPE, check items for powder leakages or manufacturing defects. Use only tested and approved products. Check racks for strength. Ensure all items secured appropriately	L-16	Event Organiser / Fireworks Contractor
Low burst or ground level aerial shell malfunction	Possible	Major	E-76	Check shells are fitted properly at bottom of mortar with no breaks or tears. Check shells for integrity. Use only approved and tested products	L-16	Event Organiser / Fireworks Contractor

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The Risk - Things that may happen. What is it and How can it happen?	Likelihood	Consequences	Risk Rating	Risk Treatments	Risk Rating After Risk Treatments	Officer/Area responsible for implementation of Risk Treatments
Injury to display operator or personnel	Rare	Major	H-68	Ensure all personnel are trained in the use and operation of all fireworks and associated equipment All operators have current First Aid Certification.	M-32	Event Organiser / Fireworks Contractor
Injury to spectator or member of the public	Rare	Major	H-68	Assess wind levels and direction and increase distances if necessary. Use only approved and tested product	M-32	Event Organiser / Fireworks Contractor
Disturbance of local residents or loss or injury to local residents animals	Possible	Moderate	H-52	Fully inform local residents of display prior to event. Abide by EPA and local laws. Use appropriate product	L-20	Event Organiser / Fireworks Contractor
Property Damage outside of display area Fires in surrounding property caused by falling Debris.	Rare	Moderate	M-32	Assess wind conditions and increase safety distances in needed. Use only approved and tested product. Assess areas for combustible material wet down if needed, ready extra fire equipment	L-4	Event Organiser / Fireworks Contractor
Trauma to spectator or public caused by display eg. Heart attack, fear or shock	Rare	Catastrophic	H-68	Warn Spectators, ensure adequate signage, plan display for demographic	M-32	Event Organiser / Fireworks Contractor
Injury caused by unfound live display items left after display	Rare	Catastrophic	H-68	Check the items to the job item sheet, check the display area for live products, remove and secure	M-32	Event Organiser / Fireworks Contractor
Management of spectator craft and or river traffic that may enter the exclusion zone.	Possible	Catastrophic	H-70	An additional small craft on hand with spotter and support person on board to warn people will have a loud hailer to instruct and warn spectators and vessels of dangers encroaching. Authorities to be notified about the event and to be contacted immediately there is a serious breach of regulations throughout display.	L-15	Event Organiser / Fireworks Contractor