

After Action Review



St. Anne Incident

August 28, 2013

ORC Incident # 13-077217

Submitted:

Division 6

Name of Incident: St. Anne Command
Address: 2111 S. Anne St., Santa Ana CA 92702
Incident Number: ORC 13-077217
Date: August 28, 2013
Time of Alarm: 01:16:35
Time of Dispatch: 01:17:01
Time of Arrival: 01:23:57
Time Closed: 18:00 (August 28, 2013)

Post After Action Assessment:

This fire presented a number of operational, safety, and strategic-related challenges. On arrival initial attack companies were confronted with heavy fire volume to the building of origin with a severe exposure to adjacent buildings. Fire companies' initially deployed large 2 ½ hose lines due to the fire volume as well as severe exposure problems during fire attack. Compounding this effort was the discovery of hazardous materials during active firefighting operations. Subsequent failure of containment vessels holding hazardous materials resulted in significant exposure to firefighters during initial attack operations.

Initial command and control activities placed efforts on a fire containment strategy as well as protection of adjacent exposures. Subsequent explosions as well as simultaneous release of hazardous materials required an immediate re-evaluation of fire attack strategy from initial offensive operations to defensive operations. Additional Alarms were requested, augmenting initial attack companies due to the rapid deterioration of fire conditions



Business Profile for La Rosa Manufacturing:

- SAFD originally had disclosure program
- SAFD was the leader in the development of the Portal
- La Rosa was part of this program 2006-07
- Mike Buren / Captain was responsible for Disclosure program
- 2007 District Attorney filed against La Rosa, obtaining a Felony Conviction for illegal disposal and use of hazardous materials; also citations for numerous fire code violations
- La Rosa – DA convicted and placed on probation.
- 2008 – La Rosa was dropped from the disclosure program; City determined that La Rosa went out of business
- 2012 La Rosa Probationary period ended
- May 2012 – fire at La Rosa - Inspector Carrie Mack and Fire Safety Engineer Robert Distaso conducted an inspection of the entire facility and Fire Prevention continues to work with the business for compliance.
- July 2012 – Hazardous disclosure data base transferred to HCA / this included Santa Ana Disclosure information
- HCA rep at scene of the incident indicated that Haz-Mat personnel did not seem to understand how to utilize the system – indicating “we are not familiar with it”

Tactical Priorities:

- Protect exposures until enough resources arrive and we can put out the fire
- Check exposures for fire extension
- Mitigate and hazardous materials issues
- Aggressively mitigate fire stream related impacts to adjacent channel and storm drains

Other Operational Factors:

Water Pressure: Request made to increase water main pressure in the area. Deployment of large diameter hose lines occurred. GPM vs. BTU

Access Issues: Flood control channel located to the rear of the building made access non-existent

Personnel Issues: Accountability, Rehab, PPE related issues

Radio Communications:

Command Frequency: 4 – C

Tactical Frequency: 3 – E

Haz Mat Frequency: 3 – K

Lessons Learned:

What Went Well

- Water runoff / early notifications with regulatory agencies
- Reinforce Best Management practices (BMPs) in accordance with operational annex guidelines

On behalf of our General Manager Mike Markus and Orange County Water District (OCWD), thank you very much for the initial call to provide status to date on the fire event and your briefing a few minutes ago to me. Upon hearing of the large fire fueled by acetone, alcohols and other nail-polishing volatile materials, the OCWD and our neighbor, Orange County Sanitation District (OCSD) initiated our response plan to immediately start monitoring the OCSD effluent to OCWD for solvents and elevated other total organics. OCSD's secondary treated water is the source water for our Groundwater Replenishment System treatment process that produces purified final product water that is used for injection at Fountain Valley to retard seawater intrusion and used for surface spreading in our recharge basins located in the Anaheim area (13 miles north Fountain Valley transported via pipeline). This is the reason that the County of Orange requested notification to OCWD.

I sincerely appreciate the responding fire team's effort to address public safety with consideration of remedial steps to address and avoid/reduce environmental issues from the fire fighting water wastes, solvents and other organic laden commingled wastes. From your verbal summary, all responding agencies coordinated extremely well to mitigate immediate fire health/safety concerns and to ensure steps taken to handle the waste materials following the incident.

I look forward to receiving briefing reports, etc.

Thank you again to you and your team.

Nira Yamachik – Orange County Water District

- Request for Rehab trailer/ later was found to be instrumental in support of Haz Mat operations – due to high heat/humidity experienced by crews
- Resource management
- Rehabilitation: Rotation of initial attack. Crews’ use of Rehab Trailer was effective
- Safety: RIC was established and we had safety officers assigned to the incident

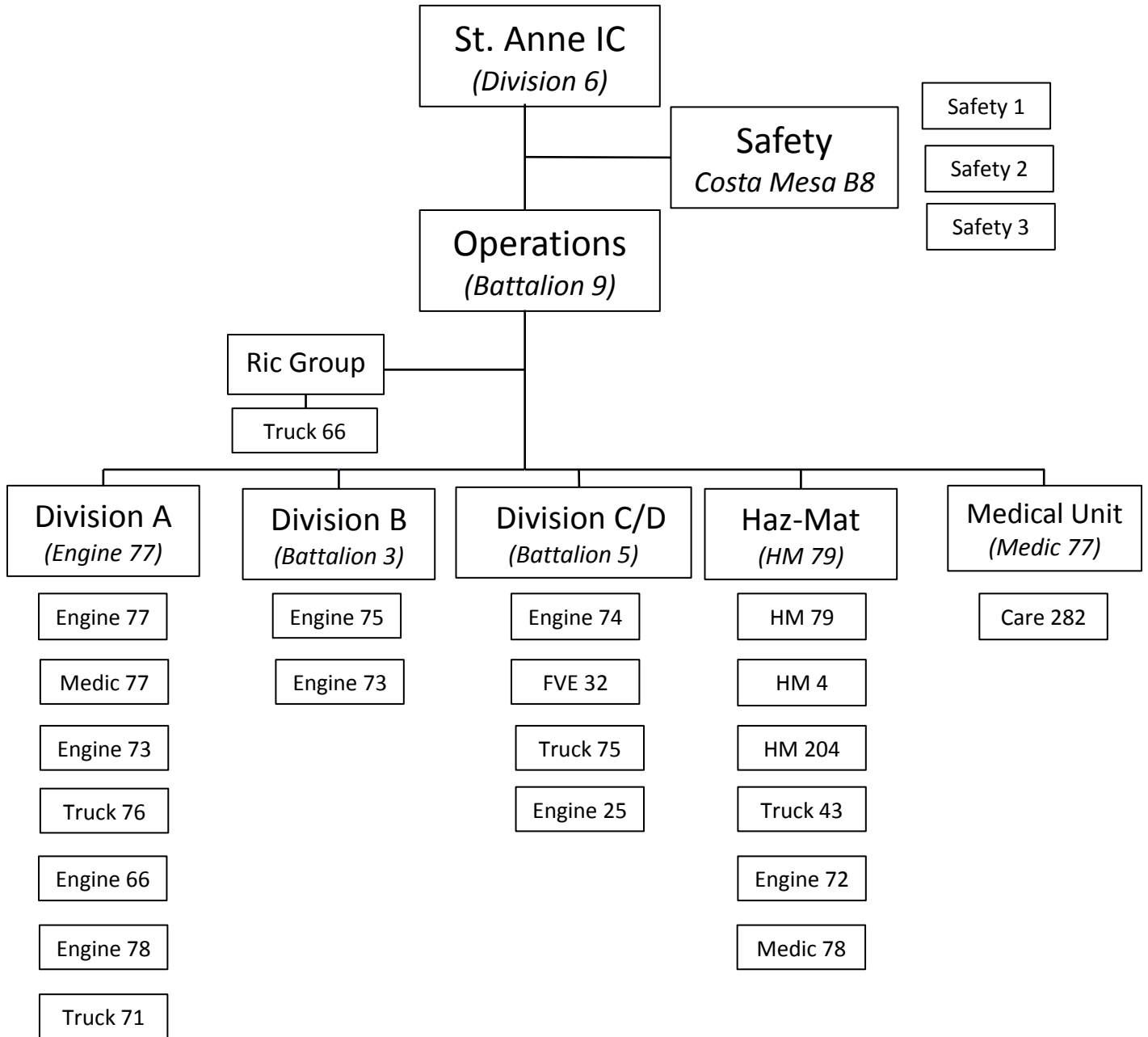
Areas for Operational Improvement

- Early access to HMDO Portal – access and knowledge by Haz Mat crews to access critical data information - this was clearly a shortcoming and is currently being addressed through Haz-Mat and Training
- Get/out turn out times need improvement to reinforce through training and awareness at Battalion/Company level
- Switching from Offensive to Defensive strategy - a clear decisive communications in Command mode is essential when conditions warrant a significant change in strategy
- Assign/clearly communicate staging function – two staging locations confusing
- Aerial Operations – unnecessary exposure (Firefighter in Basket) after explosions – hesitation by Division to remove personnel – risk vs. gain
- PPE – reinforce PPE/FAE’s still pumping without full ensemble in “Hot Zone”
- Foam Tender – lack of operational awareness on its operation capability; unit should respond with assigned station personnel, in this case E36, ECC assigned a replacement company to pick up the foam tender at 36.
- Develop consistency on how we track resources; reinforce use of 201 or “other” process
- Develop appropriate trigger points for additional resource allocation; demob
- Establishment of Business Liaison – worked with area businesses to ensure ability to continue business operations in the impact area

Alarm / Resource Profile:

1st Alarm	2nd Alarm	3rd Alarm	4th Alarm	Special Call
B-9	B-3	B-4	B-5	Foam 36
E-73	E-79	E-28	E-25	Rehab Trailer
E-74	E-75	E-37	FVE-31	Care Ambulance
E-77	E-78	E-66	E-64	
T-76	T-71	E-72	T-43	
M-77	HM-79	T-6		
Upgrade to WSTR	HM-204			
B-3	AU-30			
FVE-32	M-78			
T-75				
Service Support				

Organization Chart:



Time Sequencing Alarm Response: (times per CAD)

01:17 Truck 76, Engine 73, Engine 74, Medic 77 and Engine 77 dispatched to the area of S. Fairview Street and W. Harvard in the City of Santa Ana for a report of a structure fire at 2111 S. Anne Street

01:23 Engine 77 (Medina) on scene and assumes St. Anne IC after finding the 1-story building exposed by the fully involved pallet size fire to the exterior and upgrades the assignment to a WSTR

01:23 Battalion 9 (Henery) on scene

01:24 Engine 77 (Medina) reports 'electrical lines exposed no one to work under lines, pole on fire and some of the wires as well'

01:25 Battalion 9 (Henery) assumes St. Anne IC, ICP located at S. Anne Street

01:25 **Battalion 9 (Henery) requests 2nd Alarm**

01:30 Costa Mesa Battalion 8 assigned to incident

01:31 **Battalion 9 (Henery) requests 3rd alarm- 8 minutes on incident clock**

01:33 Truck 75 (Salas) assigned to Division C/D, 'needs rotary saw to make access to back'

01:33 Engine 74 (Miranda), assigned to Division C/D on Fairview St. /Warner Ave. side of incident

01:37 **15 minutes on incident clock**

01:41 Battalion 9 (Henery) Medic 78 assigned to Truck 71

01:41 ORC Battalion 3 (Pardi) on scene

01:43 Battalion 9 (Henery) 'Engine 28 find hydrant and support Truck 71'

01:46 Battalion 9 (Henery) 'HazMat 79 is assessing Hazmat on site'

01:47 HazMat 79 (Bodo) announces 'Pole fire directly in front of Engine 77'

01:47 **25 minutes on incident clock**

- 01:47** ORC Investigator 55 (Falcon) on scene
- 01:48** Engine 77 (Medina) assigned 'Division A' on S. Anne Street side of incident
- 01:48** Engine 66 reports to Engine 77 'Assist with hose lines on Alpha Side'
- 01:51** ORC Battalion 4 (Casario) on scene
- 01:51** Engine 77(Medina) reports 'Four metal containers with one possibly leaking fuel'
- 01:52** Division 6 (Brown) on scene- **29 minutes on incident clock**
- 01:53** Battalion 4 (Casario) assigned to assist HM 79
- 01:54** Engine 72 (McCann) assigned to assist HM 79
- 01:54** HM 79 (Bodo) located just south of the incident command post
- 01:56** HM 79 (Bodo) requests 2nd Frequency for Haz Mat '*warble tone advising all units stay away from runoff due to possible hazardous material, all personnel to wear self-contained breathing apparatus*' After face to face with St. Anne IC, HM 79 request HM 4 and HM 204 as well as a separate Haz Mat frequency and OC Health
- 02:01** St. Anne IC announces priority traffic for Division A, 'Haz Mat advising need to apply water to exposure and let fire burn on Alpha side only due to canister and minimize runoff'
- 02:02** St. Anne IC announces 'apply water to Bravo/Charlie Side and let fire burn on Alpha Side to protect exposures'
- 02:04** Engine 73 (Hunter) reports 'Bravo Side no exposure, all clear'
- 02:05** Division C reports 'Holding the fire, no extension to Delta Side exposure'
- 02:07** Engine 37(McCollom) reports 'Ready for water'
- 02:08** Division C requests additional manpower to help with additional hose line
- 02:08** **60 minutes on incident clock**
- 02:10** Haz Mat 79 (Bodo) request Orange County Health Agency to respond
- 02:12** St. Anne IC requests two additional safety officers

02:13 Battalion 5 (Gomez) on scene

02:13 St. Anne IC requests 4th alarm

02:17 St. Anne IC announces 'Division A Haz Mat advising to pull everyone out between Bravo and Delta exposures, stay away from runoff'

02:18 All personnel stay away from runoff, corrosive material – General announcement by ECC

02:20 Air Light 30 on scene

02:20 St. Anne IC announces '*All personnel pull out from Division A*'

02:22 Division 6 (Brown) assumes St. Anne IC, ORC Battalion 9 (Henery) to Operations

02:23 Southern California Edison on scene

02:28 Request for OC Health through Watch Commander, they will call in with ETA

02:28 Battalion 9 (Henery) reports 'Per Edison Water, stay off lines, lines are still hot'

02:29 St. Anne IC determines this to be in 'Defensive Mode'—Large industrial building/vessels have failed with product on ground

02:30 HM 4 (Mann) on scene

02:30 Engine 25 (Dowing) assigned to 'Division C' on Fairview St. side of incident

02:30 Truck 6 (Johnson) assigned to RIC

02:30 St. Anne IC announces 'Minimal exposures, main issue is hazmat with extended operation

02:32 75 minutes on incident clock

02:36 Kevin Bates from County Health en route with 45 minutes estimated time of arrival

02:38 St. Anne IC announces 'Explosion to rear of building, stand by for accountability'

02:39 Fire moving down the street from operations, request water as soon as possible

02:42 Battalion 5 (Gomez) assigned to 'Division A'

- 02:43** St. Anne IC announces *'Explosion to rear of building, correct address is 2117 St. Anne; all personnel accounted for'*
- 02:44** Safety Officer 33 (Huerta) on scene
- 02:45** Battalion 9 (Henery) reports strong smell of acetone and requests moving ICP and Rehab
- 02:46** Haz Mat group announces to Operations *'Clear for application of foam'*
- 02:48** **90 minute on incident clock**
- 02:52** St. Anne IC *'Have OC Health Rep make access on Warner Ave. Side on to S. Anne St.'*
- 02:54** Battalion 9 (Henery) reports *'Division C looks good, no exposures to Charlie or Delta side, fire knocked down, applying foam to fuel'*
- 02:57** Battalion 5 (Gomez) requests Haz-Mat for air monitoring in *'Division A'*
- 02:58** St. Anne IC announces *'Per Edison, lines across street de-energized but building is still energized'*
- 02:59** Battalion 9 (Henery) announces *'Power to Bravo and Delta Exposures still on per Edison'*
- 03:00** Safety Officer 31 on scene
- 03:04** **1 hour and 45 minutes on incident clock**
- 03:07** St. Anne IC announces *'Fire isolated to fire building and Bravo Exposure 2111 S. Anne'*
- 03:10** St. Anne IC requests front skip loader and lots of sand from City/Santa Ana PD
- 03:19** **2 hours on incident clock**
- 03:25** Fountain Valley Engine 32 announces *'Division C situation stabilized, personnel accounted for'*
- 03:27** Emergency Act on E66P4, all personnel accounted for
- 03:38** Engine 74 (Miranda) announces *'All personnel accounted for on the roof'*
- 03:29** Mike Aguilar of Santa Ana Public Works has an ETA of approximately 45 minutes for front loader and truck of sand and is still trying to locate a driver for the dump truck

03:34 2 hours and 15 minutes on incident clock

03:36 Battalion 9 (Henery) announces 'Dealing with haz mat issue now, exposures preventing access to it, keep clock running'

03:45 St. Anne IC makes arrangements to release Fountain Valley Engine 31

03:47 St. Anne IC requests Ambulance Care

03:48 Medic 77 (Lopez) assigned to Medical Group

03:49 FVYE31 released

03:50 2 hours and 30 minutes on incident clock

03:53 Battalion 9 (Henery) announces to all units 'Shutting down ladder pipes and see what fire does; all divisions copy'

03:55 FVYE32 goes to Decon and meets with Battalion 4 (Casario) before Rehab, then meets with Battalion 9 (Henery) at ICP

04:02 St. Anne IC announces 'Company name is La Rosa Manufacturing; will keep trying to get responsible party for the business'

04:08 2 hours and 45 minutes on incident clock

04:08 St. Anne IC announces 'Continue clock, still active fire'

04:19 3 hours on incident clock

04:26 St. Anne IC announces 'Hot zone will be everything east of St. Anne, Decon corridor between Truck 6 (Johnson) and Engine 74 (Miranda),

04:28 Truck 43 (Kurtz) assigned Decon

04:32 15 minutes for Santa Ana Public Works to arrive with sand—Announcement by the ECC

04:35 St. Anne IC determines this to be in 'Defensive Mode'—still significant haz mat issue, request foam tender to respond on tactical

04:40 3 hours and 15 minutes on incident clock

05:13 Foam 36 (Lackey) on scene and to meet Battalion 9 (Henery) up Warner Avenue to S. Anne Street

05:21 4 hours on incident clock

06:23 5 hours on incident clock

07:11 5 hours and 45 minutes on incident clock

07:12 St. Anne IC announces 'Show control'

07:12 Control of fire; **STOP FIRE INCIDENT CLOCK**

07:40 Per SASPD 'they have a unit en route to meet with IC and see if any need for student'

07:41 SASPD Sgt. Phillips en route to Mitchell School

07:57 Battalion 9 (Henery) releases Medic Engine 78 (McDermott)

08:30 Truck 76 (Jose Perez) leaving the building

08:42 Investigator 55 on scene

09:01 Investigator 6 on scene

09:31 Medic 4 on scene

09:43 H204 (Sheehan) on scene

10:20 Dave Spencer is assigned to incident as business liaison

10:21 Staff2 (Spencer) on scene

10:56 Safety Officer 2 on scene

11:39 St. Anne IC transitioned back to Battalion 9 (Henery)

12:01 St. Anne IC announces 'Hazmat making entry'

12:14 St. Anne IC announces 'Hazmat team is outside'

15:22 Engine 27, Battalion 5 (Gomez) and Hazmat Units in process of Demob

15:30 Hazmat operations cleared

15:35 Release of Care Ambulance

17:10 Engine 70 on scene

17:19 Investigator 55 announces '100K Structure, 50K contents, 200K Exterior Storage, Cause:
under investigation'

22:24 Last unit off scene – incident closed