San Diego Firestorm 2007

Preliminary Presentation of the CSU San Marcos Experience

Fitting The Pieces November 2007
*Hayne Palmour IV and the North County Times.
CSUSM - EOC
EOC Activation

2:30am Monday Oct 22, 2007
Notification System

Initiated By: University Police
Date Issued: 10/22/2007
Completed: 10/22/2007

Type: Broadcast
Expeditied Delivery: Standard

Notification in Complete

Message: EOC Personnel, The Cal State San Marcos ECC has been activated and your assistance is requested at your earliest convenience. Please respond as soon as possible or call the EOC at 750-0051.

Response:
The Command staff were first called out and then other members as needed.
CSUSM - EOC

By 4:45 AM the first call out started arriving
North County Fire Coverage

Affected Areas
EOC - Phones
Camera Surveillance – Monday
WebEOC Access

1. Access to WebEOC
2. WebEOC News and Announcements
3. WebEOC Training Schedule

Technical Support:
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Web EOC - Benefits

- Easiest to Learn - Easiest to Use - Easiest to Remember
- Most Flexible – Designed to Adjust to your Command System
- Unlimited Users & Displays
- User Expandable - User Definable - User Maintainable
WebEOC – Significant Events

1. What is happening in the County
2. What Resources have I requested
3. What is happening in my Jurisdiction
4. Edit what is happening in my Jurisdiction
5. What News has the JIC released
6. What SITREPS are completed
7. Edit what SITREPS I am working on
8. What SITREPS am I working on
9. What Status Boards are available
WebEOC – Information Flow, County Perspective with a Controller

**Step 1**
Significant Events Data Entry

**Step 2**
The Controller determines what data sent to the County Board should be displayed

**Step 3**
County Wide Events Board Viewable by Everyone

Intel Branch
Wind Damage
Wind Damage - Trees
Wind Damage – Palm Tree
Wind Damage - Dome
Wind Damage - Dome
CSUSM – Monday at the EOC
Campus Air Quality
Air Quality – Over Student Housing
CSUSM – Late Morning
Air Quality & Building Preservation

- The Building Automation System (BAS)-Lock down of HVAC
  - Center for Children and Families. Not on BAS
  - Exhaust only running in science buildings.
  - Monitored animal facilities. Lost some crayfish.
  - Filters changed to new 3M HEPA’s
  - Air turned on Thursday 10/25.

- Secured campus on Monday 10/22 in the AM.
  - Saturday 10/27 -Limited personnel allowed on campus
  - Animal handler was allowed access when needed.
Building Automation System

- Operated Remotely From The EOC
Building Automation System
Building Automation System
Air Sampling Overview

- Evaluated airborne concentrations of particulate matter in interior and exterior locations throughout CSUSM campus.
  - Established a “Clearance Criteria” (50 ug/m³ 8-hour Average) for occupancy of CSUSM buildings as a Best Management Practice.
  - Criteria based on EPA standards, industry guidelines, and Cal/OSHA regulations.
Measurements Taken

- **PM10**
  - All particles less than 10 um in aerodynamic diameter
  - Particles capable of bypassing the body’s natural defenses in the nose and throat and entering the lungs
  - When inhaled these particles can increase the number and severity of asthma attacks and cause or aggravate bronchitis and other lung diseases

- **PM2.5**
  - All particles less than 2.5 um in aerodynamic diameter
  - These particles penetrate deeper than PM10 particles.
  - They have a strong association with circulatory disease and increased mortality.
Respirable Nuisance Dust

- Cal/OSHA occupational exposure limit.
- Maximum allowable concentration that is considered safe for an employee to be exposed to 8-hours per day for 40-hours a week for a 40-year work life without a statistically significant increase in adverse health affect.
Instrumentation

PM10/PM2.5 Monitor

Respirable Nuisance Dust
Results

- Clearance provided based on measurements:
  - PM10
    - 75 locations
    - Below threshold (PASS)
  - PM2.5
    - 11 locations
    - Above and below threshold (Acceptable)
  - Respirable Nuisance Dust
    - 12 locations
    - 100 times below the Cal/OSHA PEL (PASS)
San Diego Air Pollution Control District (SDAPCD)
- Air Quality Index
- http://www.sdapcd.org/air/air_quality.html

Cal/OSHA
- Permissible Exposure Limits (PELs)
- California Code of Regulations, Title 8, Section 5155

San Diego County
- General Information
Indoor Air Quality Investigations

- Preliminary figures have the cost at 17K for 1-2 CIH’s and one tech. Full campus sampling (direct and grab samples).
- The goal was in building clearance.
- During the week of 10/29-11/2 we had nine internal IAQ investigations and 1 Worker’s Compensation case not related to the campus IAQ situation.
Campus Healing

- The President was out of the country and delegated authority to the Provost.
- Provosts Messages to the campus community.
  - Resources available to the campus community
  - Academic Senate sent plea to faculty for flexibility. Message sent out about creative means to reach learning goals w/o adding time to the school calendar.
Campus Healing

- Begun on Monday 11/29
- Proposed Donation Drive
  - Women's Center & ASI
- Resource Tables
  - For Staff and Faculty
  - For Students
- Bulletin Boards
  - I Need
  - I Have
  - Where is?
Fire Storm Statistics

San Diego County (Estimated 11/02/07)

- Homes destroyed: **1,790**.
  - Deaths: **7** directly due to fire; **7** involving evacuees, including infirmity, age, accident
  - Injuries: **71** firefighters, **27** civilians.

- Poomacha Fire – 50,156 acres
- Witch Fire – 197,990 acres
- Harris Fire – 90,440 acres
- Rice Fire – 9,472 acres
- Horno/Ammo Fire – 21,004 acres
- Wilcox Fire – 100 acres
- Cajon Fire – 250 acres
- McCoy Fire – 300 acres
- Coronado Hills Fire – 300 acres

- TOTAL 370,012

- Current estimated cost of fighting fires by involved units $23 Million
- Number of FF involved = 7737 (may include duplicates moved for support)
- Apparatus recorded: 207 Engines, 58 Water tenders, 28 “Dozers”, 21 Helicopters, 5 Heli-tankers, 13 Air Tankers (Borate/Water Bombers,)
San Marcos Fire Department

- Catching some ZZZZZZZZZZZZZZZZZZZZ’s
Questions