

Incident Status Summary (ICS-209)

Incident: **Spillway - DWR Assist**

| | | | |
|---|---|---|---|
| 1. Incident Name: Spillway - DWR Assist | | 2. Incident Number: CA-CDF-000114 | |
| 3. Report Version (check one box): Initial <input checked="" type="checkbox"/> Update Final | 4. Incident Commander(s) & Agency or Organization: Lawson/Whitlock/Honea | 5. Incident Management Organization: Type 1 Team | 6. Incident Start Date/Time: Date: 02/07/2017 Time: 1400 PST |
| 7. Current Incident Size or Area Involved (use unit label – e.g., “Acres”, “Square Miles”): 3905 Acres | 8a. Percent (%) Contained or Completed: 0 % | 9. Incident Type: Other B. Incident Description: Oroville Dam compromised spillway C. Cause: Unknown D. Fire Suppression Strategy: | 10. Incident Complexity Level: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Complex CALFIRE Incident Management Team 3 assigned to assist Department of Water Resources. |
| | b. Total Percentage (%) of Perimeter that will be Contained or Completed: 0 % | | |
| 12. Prepared By: Print Name: Josh Black Date/Time Prepared: 02/13/2017 0600 PST | | 13. Approved By: Print Name: Barry Biermann Signature: _____ | |
| 14. Date/Time Submitted: 02/13/2017 0642 PST | | 15. Primary Location, Organization, or Agency Sent To: California Department of Forestry/CALFIRE | |
| 16. State: CA | 17. County / Parish / Borough: Butte | | 18. City: Oroville |
| 19. Unit or Other: Oroville Field Division | 20. Incident Jurisdiction: DWR | 21. Incident Location Ownership (if different than jurisdiction): | |
| 22. Latitude/Longitude: Latitude: 39° 32' 22" Longitude: 121° 29' 49" | 23. US National Grid Reference: Grid Zone: x-Coordinate: y-Coordinate: | | 24. Legal Description: Principal Meridian: Mt. Diablo Township: 19N Range: 4E Section: 2 1/4 Sec: of 1/4 Sec: NW |
| 25. Short Location or Area Description (list all affected areas or a reference point): Oroville Dam Spillway, Feather River, and Thermalito diversion pool. | | | 26. UTM Coordinates: Zone: 10 Easting: 629160 Northing: 4377732 |
| 27. Note any geospatial data available (indicate data format, content, and collection time information and labels): | | | |
| 28. Observed Fire Behavior or Significant Events for the Time Period Reported (describe fire behavior using accepted terminology. For non-fire incidents, describe significant events related to the materials or other causal agents): | | | |

Incident Status Summary (ICS-209)

Incident: **Spillway - DWR Assist**

Narrative:

29. Primary Fuel Model, Materials, or Hazards Involved (hazardous chemicals, fuel types, infectious agents, radiation, etc):

Narrative:

Water, concrete, soil/dirt, trees, debris are the main hazards to the spillways and downstream infrastructure.

30. Damage Assessment Information (summarize damage and/or restriction of use or availability to residential or commercial property, natural resources, critical infrastructure and key resources, etc):

A spillway located at the Oroville Dam was compromised during heavy rains. Flowing water was diverted toward the adjoining hillsides, effectively eroding and undermining the spillway causing a section to collapse. Water continues to crest over the emergency spillway, causing significant degradation and possibility of breach. The Feather River Fish Hatchery moved most aquatic assets to safe areas. California State Parks has closed trails around the spillways and portions of the lake where necessary.

| A. Structural Summary | B. # Threatened (up to 72 hrs) | C. # Damaged | D. # Destroyed |
|---------------------------------------|--------------------------------|--------------|----------------|
| E. Single Residences | 0 | 0 | 0 |
| F. Multiple Residences | 0 | 0 | 0 |
| G. Mixed Commercial / Residential | 0 | 0 | 0 |
| H. Nonresidential Commercial Property | 0 | 0 | 0 |
| I. Other Minor Structures | 0 | 0 | 0 |

31. Public Status Summary:

C. Indicate the Number of Civilians (Public) Below:

| | Previous Report Total | A. # this Reporting Period | B. Total # to-date |
|--|-----------------------|----------------------------|--------------------|
| D. Fatalities | 0 | | 0 |
| E. With Injuries/Illness | 0 | | 0 |
| F. Trapped/In Need of Rescue | 0 | | 0 |
| G. Missing | 0 | | 0 |
| H. Evacuated | 35,000 | 0 | 35,000 |
| I. Sheltering in Place | 0 | | 0 |
| J. In Temporary Shelters | 0 | | 0 |
| K. Have Received Mass Immunizations | 0 | | 0 |
| L. Require Immunizations | 0 | | 0 |
| M. In Quarantine | 0 | | 0 |
| N. Total # Civilians (Public) Affected: | 35,000 | 0 | 35,000 |

32. Responder Status Summary:

C. Indicate the Number of Responders Below:

| | Previous Report Total | A. # this Reporting Period | B. Total # to-date |
|--|-----------------------|----------------------------|--------------------|
| D. Fatalities | 0 | | 0 |
| E. With Injuries/Illness | 0 | | 0 |
| F. Trapped/In Need of Rescue | 0 | | 0 |
| G. Missing | 0 | | 0 |
| H. Evacuated | 0 | | 0 |
| I. Sheltering in Place | 0 | | 0 |
| J. In Temporary Shelters | 0 | | 0 |
| K. Have Received Mass Immunizations | 0 | | 0 |
| L. Require Immunizations | 0 | | 0 |
| M. In Quarantine | 0 | | 0 |
| N. Total # Responders Affected: | 0 | | 0 |

33. Life, Safety, and Health Status/Threat Remarks:

All work on the emergency spillway ceased due to Oroville lake reaching spillover height. Water flowing over emergency spillway has ceased. Water continues to crest over the main spillway and is causing erosion to the hillside as expected. Lake elevation levels trending downward from maximum recorded

34. Life, Safety, and Health Threat Management:

| | Active? |
|---------------------|--------------------------|
| A. No Likely Threat | <input type="checkbox"/> |

Incident Status Summary (ICS-209)

Incident: **Spillway - DWR Assist**

| | | |
|---|-----------------------------------|---------|
| height, however emergency spillway has experienced signification degradation with a possibility of breach. Evacuation orders have been issued for numerous downstream communities. ICP was temporarily moved to the Kelly Ridge Community Center, but has now returned to DWR Oroville Field Division Headquarters. | | Active? |
| | B. Potential Future Threat | X |
| | C. Mass Notifications in Progress | |
| | D. Mass Notifications Completed | X |
| | E. No Evacuation(s) Imminent | |
| | F. Planning for Evacuation | |
| | G. Planning for Shelter-in-Place | |
| | H. Evacuation(s) in Progress | X |
| | I. Shelter-in-Place in Progress | |
| | J. Repopulation in Progress | |
| | K. Mass Immunization in Progress | |
| | L. Mass Immunization Complete | |
| | M. Quarantine in Progress | |
| | N. Area Restriction in Effect | X |
| | O. Road Closure | X |
| | P. Trail Closure | X |
| | Q. Area Closure | X |
| <p>35. Weather Concerns (synopsis of current and predicted weather; discuss related factors that may cause concern):</p> <p>Dry weather and warming temperatures expected through Wednesday as high pressure builds in. Wet pattern returns late Wednesday at least Tuesday Feb 21st. Although...current models do not show any storms as strong as last week, the pattern is a wet one and forecast could change heading forward.</p> <p>02/12/2017-1800 to 0600</p> <p>Mostly clear, 42 to 47 degrees with no chance of precipitation. Humidity will be at 85 to 90% with a Northeast wind up to 4 mph.</p> <p>02/13/17 0600-1800</p> <p>Mostly sunny, 62 to 67 degrees with no chance of precipitation. Humidity will be at 51 to 56% with Northeast winds up to 7 mph shifting to the west up to 5 mph in the afternoon.</p> | | |

| | |
|---|--|
| 36. Projected Incident Activity, Potential, Movement, Escalation, or Spread and influencing factors during the next operational period and in 12-, 24-, 48-, and 72-hour time frames: | |
| 12 hours: | Flow from spillway to be at 100,000 cfs to avoid flow over emergency spillway. Crew will be back filling emergency spillway to mitigate impacts from erosion. Crews will continue to evaluate auxiliary spillway. |
| 24 hours: | Flow from spillway to be at 100,000 cfs to avoid flow over emergency spillway. Crew will be back filling emergency spillway to mitigate impacts from erosion. Crews will continue to evaluate auxiliary spillway. |
| 48 hours: | Flow from spillway to be at 100,000 cfs to avoid flow over emergency spillway. Crew will be back filling emergency spillway to mitigate impacts from erosion. Crews will continue to evaluate auxiliary spillway. |
| 72 hours: | Flow from spillway to be at 100,000 cfs to avoid flow over emergency spillway. Crew will be back filling emergency spillway to mitigate impacts from erosion. Crews will continue to evaluate auxiliary spillway. |
| Anticipated after 72 hours: TBD | |

37. Strategic Objectives (define planned end-state for incident):

Continue work on the roadway on left side of diversion pool to provide access for debris removal in tailrace. Use barges and boat to survey and remove debris blockages. Build rock protection for right side of spillway. Remove debris and logs out of diversion pool and chip. Utilization of main spillway to avoid use of emergency spillway. Evacuations ordered for numerous communities. Crews continuing ongoing assessment of water levels and Oroville Dam conditions.

38. Current Incident Threat Summary and Risk Information in 12-, 24-, 48-, and 72-hour timeframes and beyond. Summarize primary incident threats to life, property, communities and community stability, residences, health care facilities, other critical infrastructure and key resources, commercial facilities, natural and environmental resources, cultural resources, and

Incident Status Summary (ICS-209)

Incident: **Spillway - DWR Assist**

| | | |
|---|--|-----|
| continuity of operations and/or business. Identify corresponding incident-related potential economic or cascading impacts: | | |
| 12 hours: | Water continues to crest over the main spillway and is causing erosion to the hillside as expected. Emergency spillway has experienced signification degradation with a possibility of breaching. ICP was temporarily moved to the Kelly Ridge Community Center, but has since returned to DWR Oroville Field Division. Numerous communities have been evacuated. Main spillway flows were escalated to relieve pressure on emergency spillway. Main spillway downstream flowing continues to be a threat over the next 12 hours to the city of Oroville and adjoining downstream communities. Threats to critical infrastructure, natural, environmental and cultural resources. | |
| 24 hours: | Same as above. | |
| 48 hours: | Same as above. | |
| 72 hours: | Same as above. | |
| Anticipated after 72 hours: Predicted rainfall for the end of next week, Wednesday 2/15/17. | | |
| 39. Critical Resource Needs in 12-, 24-, 48-, and 72-hour timeframes and beyond to meet critical incident objectives. List resource category, kind, and/or type, and amount needed, in priority order: | | |
| 12 hours: | N/A | |
| 24 hours: | N/A | |
| 48 hours: | N/A | |
| 72 hours: | N/A | |
| Anticipated after 72 hours: N/A | | |
| 40. Strategic Discussion: Explain the relation of overall strategy, constraints, and current available information to: <ol style="list-style-type: none"> 1) critical resource needs identified above, 2) the Incident Action Plan and management objectives and targets, 3) anticipated results. Explain major problems and concerns such as operational challenges, incident management problems, and social, political, economic, or environmental concerns or impacts. | | |
| Due to significant flow through the emergency spillway, numerous communities were evacuated. Based on initial threat of emergency spillway breach, the ICP was also evacuated as a precaution, but has since returned to DWR Oroville Field Division Headquarters. | | |
| 41. Planned Actions for Next Operational Period: | | |
| Spillway operations to continue at 100,000 cfs depending on amount of erosion observed. | | |
| 42. Projected Final Incident Size/Area (use unit label – e.g., “Acres”, “Square Miles”): | | |
| 43. Anticipated Incident Containment or Completion Date: 02/28/2017 | | |
| 44. Projected Significant Resource Demobilization Start Date: | | |
| 45. Estimated Incident Costs to Date: \$3,879,000.00 | | |
| 46. Projected Final Incident Cost Estimate: | | |
| 47. Remarks (or continuation of any blocks above – list block number in notation): | | |
| Readjusted estimated cost rose due to DWR contractor data inputs. | | |
| 49. Resources (summarize resources by category, kind, and/or type; show # of resources on top ½ of box, show # of personnel associated with resource on bottom ½ of box): | | |
| 48. | 50. | 51. |

Incident Status Summary (ICS-209)

Incident: **Spillway - DWR Assist**

| Agency or Org | | Ovhd | Tot Pers |
|----------------------------|------|------|------------|
| C&L | Rsrc | | |
| | Pers | 20 | 20 |
| CA | Rsrc | | |
| | Pers | 139 | 139 |
| CA-CDF | Rsrc | | |
| | Pers | 39 | 39 |
| 52. Total Resources | | | 198 |

53. Additional Cooperating and Assisting Organizations Not Listed Above:

Butte County OES, Caltrans, Yuba Fire Department, Marysville Police Department, Calfire, PG&E, CHP, Cal State Parks, Butte County Sheriff, Oroville Police Department, Oroville Fire Dept, Butte County Public Works, Marysville Hospital