# LONG BEACH FIRE DEPARTMENT
## Marine Safety Division

# TRAINING ACTION PLAN

## C-Shift Missing Diver

Operational Period

Date From: 11/05/2026 Date To: 11/05/2026

Time From:0800 Hours Time To: 1300 Hours

**Approved By Incident Commander:**

_____

**Rank, First Initial, Last Name**

# INCIDENT OBJECTIVES (ICS 202)

| 1. Incident Name: C-Shift Missing Diver | 2. Operational Period: Date From: 11-05-2026 Date To: 11-05-2026<br>Time From: 0800 Time To: 1300 |
|---|---|

**3. Objective(s):**

-This drill is to simulate searching for a missing diver last seen on the 40' structural frame

- Controlled descent down assigned piling to 40' structural frame
- Communicate with top-side on visibility and depth
- Conduct search around perimeter of structure within the outer pilings maintaining contact with the 40 foot platform
- Conduct search in and around pilings
- When diver is located, communicate findings to top-side
- Return to the original assigned piling with the missing diver and complete a controlled ascent to surface
- Reset

- Follow Directions of Rescue Boat Captain and Deckhand on and around the rescue boat
- Controlled descent to planned depth
- Conduct Search pattern as it is laid out in the briefing
- Controlled Ascent with awareness of surroundings
- Surface with 500 psig minimum

**4. Operational Period Command Emphasis:**

- Participants must attend the the Safety briefing
- If an accident should occur the IC shall be notified immediately. Use "EMERGENCY RADIO TRAFFIC" as necessary
- Breathing Compressed air is dehydrating, hydrate pre and post diveUtilize safe practices in carrying out the mission
- Employ clear communication
- Facilitate networking between agencies

General Situational Awareness

- Expected depth of 40 feet.
- Entanglement
- Overhead Environment
- Bottomless Dive

**5. Site Safety Plan Required?** Yes ☐ No ☒

**Approved Site Safety Plan(s) Located at:**

**6. Incident Action Plan** (the items checked below are included in this Incident Action Plan)**:**

| | | | |
|---|---|---|---|
| ☐ ICS 203 | ☐ ICS 207 | Other Attachments: | |
| ☐ ICS 204 | ☒ ICS 208 | ☒ | Long Beach Dive Team Dive Plan |
| ☒ ICS 205 | ☐ Map/Chart | ☒ | LBFD Training Roster |
| ☐ ICS 205A | ☐ Weather Forecast/Tides/Currents | ☒ | Noaa Dive Table |
| ☒ ICS 206 | | ☒ | LBFD Repetitive Dive Log |

**7. Prepared by:** Name: Williams Position/Title: RBC / Dive Sup. Signature: _____

**8. Approved by Incident Commander:** Name: _____ Signature: _____

| ICS 202 | IAP Page 1 | Date/Time: 10-15-2026 |
|---|---|---|

# INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

| 1. Incident Name: | 2. Date/Time Prepared: | 3. Operational Period: |
|---|---|---|
| C-Shift Missing Diver | Date: 10-15-2026<br>Time: | Date From: 11-05-2026 Date To: 11-05-2026<br>Time From: 0800 Time To: 1300 |

**4. Basic Radio Channel Use:**

| Zone Grp. | Ch # | Function | Channel Name/Trunked Radio System Talkgroup | Assignment | RX Freq N or W | RX Tone/NAC | TX Freq N or W | TX Tone/NAC | Mode (A, D, or M) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | Command | Fire 4 | Dive Group | | | | | | |
| | 1 | Emergency | Fire 1 | Medical Group | | | | | | |
| | A | Tactical | | Divers | | | | | | Through water coms. |
| | 16/22 | USCG | | Resource Group | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**5. Special Instructions:**

- Surface OPS. on FIRE 4
- Through water coms. for diver to diver and diver to surface ban A.
- Emergency resources FIRE 1
- VHF 16/22 for USCG

**6. Prepared by** (Communications Unit Leader) Name: Williams Signature: _____

**ICS 205** | **IAP Page** _____ Date/Time: 10-15-2026

# MEDICAL PLAN (ICS 206)

| **1. Incident Name:** C-Shift Missing Diver | **2. Operational Period:** Date From: 11-05-2026 Time From: 0800 | Date To: 11-05-2026 Time To: 1300 |
|---|---|---|

**3. Medical Aid Stations:**

| Name | Location | Contact Number(s)/Frequency | Paramedics on Site? |
|---|---|---|---|
| Rescue Boat 1 | Station 21 | LOB V-4 / VHF -16 | ☒ Yes ☐ No |
| Rescue Boat 5 | On Scene | LOB V-4 / VHF -16 | ☐ Yes ☒ No |
| | | | ☐ Yes ☐ No |
| | | | ☐ Yes ☐ No |
| | | | ☐ Yes ☐ No |
| | | | ☐ Yes ☐ No |

**4. Transportation** (indicate air or ground)**:**

| Ambulance Service | Location | Contact Number(s)/Frequency | Level of Service |
|---|---|---|---|
| LBFD | Ballast Point Dock | LBFD V-1 | ☒ ALS ☐ BLS |
| LACO Sheriff Air Rescue 5 | | | ☒ ALS ☐ BLS |
| USCG, Air Ops | | (650) 784-8904 | ☐ ALS ☒ BLS |
| | | | ☐ ALS ☐ BLS |

**5. Hospitals:**

| Hospital Name | Address, Latitude & Longitude if Helipad | Contact Number(s)/ Frequency | Travel Time | | Trauma Center | Burn Center | Helipad |
|---|---|---|---|---|---|---|---|
| | | | Air | Ground | | | |
| Long Beach Memorial | 2801 Atlantic Ave, Long Beach, CA 90807 | (562) 933-2000 | 5 | 15 | ☒ Yes Level:_____ | ☐ Yes ☐ No | ☒ Yes ☐ No |
| Catalina Chamber | 1 Big Fisherman Cove Avalon | (310) 510-1053 | 10 | | ☐ Yes Level:_____ | ☐ Yes ☒ No | ☒ Yes ☐ No |
| | | | | | ☐ Yes Level:_____ | ☐ Yes ☐ No | ☐ Yes ☐ No |
| | | | | | ☐ Yes Level:_____ | ☐ Yes ☐ No | ☐ Yes ☐ No |
| | | | | | ☐ Yes Level:_____ | ☐ Yes ☐ No | ☐ Yes ☐ No |

**6. Special Medical Emergency Procedures:**

- All patients will be assesed for barotrauma, and transported to the chamber at Isthmus if required per medical direction.

☒ Check box if aviation assets are utilized for rescue. If assets are used, coordinate with Air Operations.

**7. Prepared by** (Medical Unit Leader)**:** Name: Williams Signature: _____

**8. Approved by** (Safety Officer)**:** Name: _____ Signature: _____

| **ICS 206** | **IAP Page** _____ | Date/Time: 10/15/2026 |
|---|---|---|

# SAFETY MESSAGE/PLAN (ICS 208)

| 1. Incident Name: | 2. Operational Period: Date From: 11-05-2026 Date To: 11-05-2026 |
|---|---|
| C-Shift Missing Diver | Time From: 0800 Time To: 1300 |

**3. Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan:**

- Participants must attend the Safety briefing
- Any Participant my suspend the drill due to safety concerns; at the discretion of the Dive Officer the exercise may be terminated
- If an accident should occur notify the IC or Instructor immediately. Use "EMERGENCY RADIO TRAFFIC" as necessary
- Dive equipment / gear must be in excellent working condition in order to participate in exercise
- Divers shall inspect their buddy's equipment prior to entering the water
- Participants will act in a responsible manner at all times during this exercise
- Divers will maintain buddy disipline with NO EXCEPTIONS
- Never hold your breath while diving on compressed air
- Always make eye contact with the deckhand when approaching the Rescue Boat
- Follow instructions from the deckhand when embarking / disembarking the swim step
- Clear you ears early and often
- Participants on SCUBA will return to the surface with not less than 500 psi at the completion of the dive exercise
- Table profiles will be monitored pre and post dive
- Always maintain situational awareness, IF YOU SEE SOMETHING SAY SOMETHING! Our safety is everyones concern.
- If you get separated from your buddy search for no more than a minute, then safely surface.

**4. Site Safety Plan Required?** Yes ☐ No ☒

**Approved Site Safety Plan(s) Located At:**

**5. Prepared by:** Name: Williams Position/Title: RBC / Dive Supervisc Signature: _____

| ICS 208 | IAP Page _____ | Date/Time: 10-15-2026 |
|---|---|---|

## Long Beach Fire Department Dive Team

# Dive Plan

**Date:** 11-05-2026 **Location:** Patform Elly **Dive Supervisor:** Williams

| | | | | |
|---|---|---|---|---|
| **Depth:** 40' | | **Visibility:** 20+' | | **Temp:** 64 Deg |
| **Equipment:** | ☐ Wet | ☒ Dry | ☐ RDU | ☒ SCUBA ☒ Surface Comms |
| **Dive Type:** | Deep Dive | | | |
| **Hazards:** | ☒ Entanglement | ☒ Overhead Environment | ☐ Pollution | ☒ Strong Current |
| | ☒ Other: Bottomless Dive | | | |

| **Dive 1** | **Time:** 1000 | | **Dive 2** | **Time:** 1100 | | **Dive 3** | **Time:** 1145 | |
|---|---|---|---|---|---|---|---|---|
| **Divers:** | Williams, Buso | | Divers: | Balsillie, Gonzales | | Divers: | Mathison, Trinkle | |
| **RIC:** | Balsillie, Gonzales | | RIC: | Mathison, Trinkle | | RIC: | Gonzales, Buso | |
| **Start P.G.:** | A | | Start P.G.: | A | | Start P.G.: | A | |
| **Depth:** | 40 Ft. | | Depth: | 40 Ft. | | Depth: | 40 Ft. | |
| **Bottom Time:** | 20 Min. | | Bottom Time: | 20 Min. | | Bottom Time: | 20 Min. | |
| **Safety Stop:** | | | Safety Stop: | | | Safety Stop: | | |
| **End P.G.:** | B | | End P.G: | B | | End P.G.: | B | |
| **Surface Interval:** | | | Surface Interval: | | | Surface Interval: | | |
| **Coverage:** | RB1 | Bay | Coverage: | RB1 | Bay | Coverage: | RB1 | Bay |
| | | Beach | | | Beach | | | Beach |

Notifications: ☐ USCG (310) 521-3815 ☐ Catalina Hyperbaric Chamber (310) 510-4020

**Dive Description/Sketch:** Missing Diver at Platform Elly

Objectives:

- This drill is to simulate searching for a missing diver last seen on the 40' structural frame

- Controlled descent down assigned piling to 40' structural frame
- Communicate with top-side on visibility and depth
- Conduct search around perimeter of structure within the outer pilings maintaining contact with the 40 foot platform
- Conduct search in and around pilings
- When diver is located, communicate findings to top-side
- Return to the original assigned piling with the missing diver and complete a controlled ascent to surface
- Reset

Coverage Assignments:

RB1 cover the Bay

# NOAA NO-DECOMPRESSION TABLE
# MULTIPLE AIR DIVES

WARNING: EVEN STRICT COMPLIANCE WITH THESE CHARTS WILL NOT GUARANTEE AVOIDANCE OF DECOMPRESSION SICKNESS. CONSERVATIVE USAGE IS STRONGLY RECOMMENDED.

RNT RESIDUAL NITROGEN TIME
+ ABT ACTUAL BOTTOM TIME
ESDT EQUIVALENT SINGLE DIVE TIME

(USE ESDT TO DETERMINE END-OF-DIVE LETTER GROUP)

**THESE CHARTS ARE BASED ON THE U.S. NAVY AIR DECOMPRESSION TABLES 7, 8, & 9 REV. 6**

## CHART 1 — DIVE TIMES WITH END-OF-DIVE GROUP LETTER

00 MAXIMUM NO-STOP TIME

DIVE TIME REQUIRING DECOMPRESSION STOP MINUTES REQUIRED AT 20 fsw (6.1 msw) — 00 / 00

| DEPTH msw | DEPTH fsw | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12.2 | 40 | 12 | 20 | 27 | 36 | 44 | 53 | 63 | 73 | 84 | 95 | 108 | 121 | 135 | 151 | 163 | 180 / 14 |
| 13.7 | 45 | 11 | 17 | 24 | 31 | 39 | 46 | 55 | 63 | 72 | 82 | 92 | 102 | 114 | 125 | 130 / 2 | 150 / 25 |
| 15.2 | 50 | 9 | 15 | 21 | 28 | 34 | 41 | 48 | 56 | 63 | 71 | 80 | 89 | 92 | 100 / 4 | 110 / 8 | 130 / 34 |
| 16.8 | 55 | 8 | 14 | 19 | 25 | 31 | 37 | 43 | 50 | 56 | 63 | 71 | 74 | 80 / 4 | 90 / 10 | 100 / 17 | |
| 18.3 | 60 | 7 | 12 | 17 | 22 | 28 | 33 | 39 | 45 | 51 | 57 | 60 | 65 / 2 | | 80 / 14 | 90 / 23 | |
| 21.3 | 70 | 6 | 10 | 14 | 19 | 23 | 28 | 32 | 37 | 42 | 47 | 48 | 55 / 9 | 60 / 14 | 70 / 24 | | |
| 24.4 | 80 | 5 | 9 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 39 | 45 / 10 | | 50 / 17 | 60 / 30 | | |
| 27.4 | 90 | 4 | 7 | 11 | 14 | 17 | 21 | 24 | 28 | 30 | 35 / 4 | | 40 / 14 | 45 / 23 | | | |
| 30.5 | 100 | 4 | 6 | 9 | 12 | 15 | 18 | 21 | 25 | | 30 / 3 | | 35 / 15 | 40 / 26 | | | |
| 33.5 | 110 | 3 | 6 | 8 | 11 | 14 | 16 | 19 | 20 | 25 / 3 | | 30 / 14 | | 35 / 27 | | | |
| 36.6 | 120 | 3 | 5 | 7 | 10 | 12 | 15 | | 20 / 2 | | 25 / 8 | | 30 / 24 | | | | |
| 39.6 | 130 | 2 | 4 | 6 | 9 | 10 | | 15 / 1 | | 20 / 4 | | 25 / 17 | | | | | |

## CHART 3 — REPETITIVE DIVE TIME

REPETITIVE DIVES SHALLOWER THAN 40 FSW (12.2 MSW) ARE TO USE THE 40 FSW (12.2 MSW) REPETITIVE SCHEDULE

| fsw / msw | 40 / 12.2 | 45 / 13.7 | 50 / 15.2 | 55 / 16.8 | 60 / 18.3 | 70 / 21.3 | 80 / 24.4 | 90 / 27.4 | 100 / 30.5 | 110 / 33.5 | 120 / 36.6 | 130 / 39.6 | GROUP LETTER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 13 / 150 | 12 / 113 | 11 / 81 | 10 / 64 | 9 / 51 | 8 / 40 | 7 / 32 | 6 / 24 | 5 / 20 | 5 / 15 | 5 / 10 | 4 / 6 | A |
| | 21 / 142 | 18 / 107 | 17 / 75 | 15 / 59 | 14 / 46 | 12 / 36 | 10 / 29 | 9 / 21 | 8 / 17 | 8 / 12 | 7 / 8 | 6 / 4 | B |
| | 29 / 134 | 25 / 100 | 23 / 69 | 20 / 54 | 19 / 41 | 16 / 32 | 14 / 25 | 12 / 18 | 11 / 14 | 10 / 10 | 9 / 6 | 9 / 1 | C |
| | 37 / 126 | 32 / 93 | 29 / 63 | 26 / 48 | 24 / 36 | 20 / 28 | 18 / 21 | 16 / 14 | 14 / 11 | 13 / 7 | 12 / 3 | | D |
| | 45 / 118 | 40 / 85 | 35 / 57 | 32 / 42 | 29 / 31 | 25 / 23 | 22 / 17 | 19 / 11 | 17 / 8 | 16 / 4 | 14 / 1 | | E |
| | 55 / 108 | 48 / 77 | 42 / 50 | 38 / 36 | 35 / 25 | 29 / 19 | 25 / 14 | 22 / 8 | 20 / 5 | 18 / 2 | | | F |
| | 64 / 99 | 56 / 69 | 49 / 43 | 44 / 30 | 40 / 20 | 34 / 14 | 29 / 10 | 26 / 4 | 23 / 2 | | | | G |
| | 74 / 89 | 64 / 61 | 57 / 35 | 51 / 23 | 46 / 14 | 39 / 9 | 33 / 6 | 29 / 1 | | | | | H |
| | 85 / 78 | 73 / 52 | 65 / 27 | 58 / 16 | 52 / 8 | 44 / 4 | 38 / 1 | | | | | | I |
| | 97 / 66 | 83 / 42 | 73 / 19 | 65 / 9 | 58 / 2 | | | | | | | | J |
| | 109 / 54 | 93 / 32 | 81 / 11 | 72 / 2 | | | | | | | | | K |
| | 122 / 41 | 104 / 21 | 90 / 2 | | | | | | | | | | L |
| | 136 / 27 | 115 / 10 | | | | | | | | | | | M |
| | 152 / 11 | | | | | | | | | | | | N |
| | | | | | | | | | | | | | O |
| | | | | | | | | | | | | | Z |

00 / 00 — RED NUMBERS (TOP) ARE RESIDUAL NITROGEN TIMES (RNT)
BLACK NUMBERS (BOTTOM) ARE ADJUSTED NO-STOP REPETITIVE DIVE TIMES
ACTUAL DIVE TIME SHOULD NOT EXCEED THIS NUMBER

## CHART 2 — SURFACE INTERVAL TIME

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:20 / :10 | 3:36 / 1:17 | 4:31 / 2:12 | 5:23 / 3:04 | 6:15 / 3:56 | 7:08 / 4:49 | 8:00 / 5:41 | 8:52 / 6:33 | 9:44 / 7:25 | 10:36 / 8:17 | 11:29 / 9:10 | 12:21 / 10:02 | 13:13 / 10:54 | 14:05 / 11:46 | 14:58 / 12:38 | 15:50 / 13:31 |
| | 1:16 / :10 | 2:11 / :56 | 3:03 / 1:48 | 3:55 / 2:40 | 4:48 / 3:32 | 5:40 / 4:24 | 6:32 / 5:17 | 7:24 / 6:09 | 8:16 / 7:01 | 9:09 / 7:53 | 10:01 / 8:45 | 10:53 / 9:38 | 11:45 / 10:30 | 12:37 / 11:22 | 13:30 / 12:14 |
| | | :55 / :10 | 1:47 / :53 | 2:39 / 1:45 | 3:31 / 2:38 | 4:23 / 3:30 | 5:16 / 4:22 | 6:08 / 5:14 | 7:00 / 6:07 | 7:52 / 6:59 | 8:44 / 7:51 | 9:37 / 8:43 | 10:29 / 9:35 | 11:21 / 10:28 | 12:13 / 11:20 |
| | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 | 4:21 / 3:30 | 5:13 / 4:22 | 6:06 / 5:14 | 6:58 / 6:07 | 7:50 / 6:59 | 8:42 / 7:51 | 9:34 / 8:43 | 10:27 / 9:35 | 11:19 / 10:28 |
| | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 | 4:21 / 3:30 | 5:13 / 4:22 | 6:06 / 5:14 | 6:58 / 6:07 | 7:50 / 6:59 | 8:42 / 7:51 | 9:34 / 8:43 | 10:27 / 9:35 |
| | | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 | 4:21 / 3:30 | 5:13 / 4:22 | 6:06 / 5:14 | 6:58 / 6:07 | 7:50 / 6:59 | 8:42 / 7:51 | 9:34 / 8:43 |
| | | | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 | 4:21 / 3:30 | 5:13 / 4:22 | 6:06 / 5:14 | 6:58 / 6:07 | 7:50 / 6:59 | 8:42 / 7:51 |
| | | | | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 | 4:21 / 3:30 | 5:13 / 4:22 | 6:06 / 5:14 | 6:58 / 6:07 | 7:50 / 6:59 |
| | | | | | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 | 4:21 / 3:30 | 5:13 / 4:22 | 6:06 / 5:14 | 6:58 / 6:07 |
| | | | | | | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 | 4:21 / 3:30 | 5:13 / 4:22 | 6:06 / 5:14 |
| | | | | | | | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 | 4:21 / 3:30 | 5:13 / 4:22 |
| | | | | | | | | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 | 4:21 / 3:30 |
| | | | | | | | | | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 | 3:29 / 2:38 |
| | | | | | | | | | | | | | :52 / :10 | 1:44 / :53 | 2:37 / 1:45 |
| | | | | | | | | | | | | | | :52 / :10 | 1:44 / :53 |
| | | | | | | | | | | | | | | | :52 / :10 |

**Time Ranges in hours: minutes**
**Enter Chart 2 from the top, move down to find surface interval time, move left to find the next repetitive group letter.**

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# PUBLIC SAFETY DIVE TEAM
# REPETITIVE DIVE LOG

Date: November 05, 2026 Location: Platform Elly Dive Supervisor: Williams

Tables Used: Noaa Type: Dive Drill Dive Description: Missing Diver

| | SI | BEG. PG | STARTING PSI | TIME DOWN | MAX. DEPTH | TIME UP | SAFETY STOP | ENDING PSI | RES. NIT. TIME | TOTAL TIME | END PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Williams | | | | | | | | | | | |
| | | | | | | | | | | | |
| Buso | | | | | | | | | | | |
| | | | | | | | | | | | |
| Balsillie | | | | | | | | | | | |
| | | | | | | | | | | | |
| Gonzales | | | | | | | | | | | |
| | | | | | | | | | | | |
| Mathison | | | | | | | | | | | |
| | | | | | | | | | | | |
| Trinkle | | | | | | | | | | | |
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# LONG BEACH FIRE DEPARTMENT
# TRAINING DIVISION

## ROSTER / SIGN-IN SHEET

| Type of Training/ Drill: | Location: Platform Elly | Date: |
|---|---|---|
| C-Shift Missing Diver | Time: 0800-1300 | 11/05/2026 |
| Coordinator: Williams | | |

| # | Print Last Name, First Name | Agency | Station / Shift | Signature/Phone # |
|---|---|---|---|---|
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