

In the U.S. Continental Shelf Area, including harbors, rivers and the inspection of water towers, it is common practice to use a three (3) man dive team; which is absolutely unsafe.

A three (3) man dive team consists of:

- A Rescue Diver in place of a Diver Supervisor (blue). The Rescue Divers is normally not qualified to be a Supervisor. This problem leads to many accidents and fatalities.
- A Tender (red)
- A Diver (black)

Even under the most optimal conditions a three (3) man dive team is an **accident waiting to happen.**

The regulations for all dives, at any depth should be as stringent as the regulations for any situation that puts a worker into an environment where he cannot breathe the surrounding atmosphere.

The following pages will illustrate current practices and why a five (5) man dive team is the **ONLY** safe option.

DIVE CONTROL PANEL

The Dive Control Panel is operated by the Dive Supervisor.

The Dive Control Panel receives air from 3 sources:

- 1) Main Dive Compressor
- 2) Standby Dive Compressor
- 3) High Pressure (HP) Regulated Air Bank

The Dive Panel allows the Dive Supervisor to monitor and if necessary isolate each source of air and switch them.

Example A:

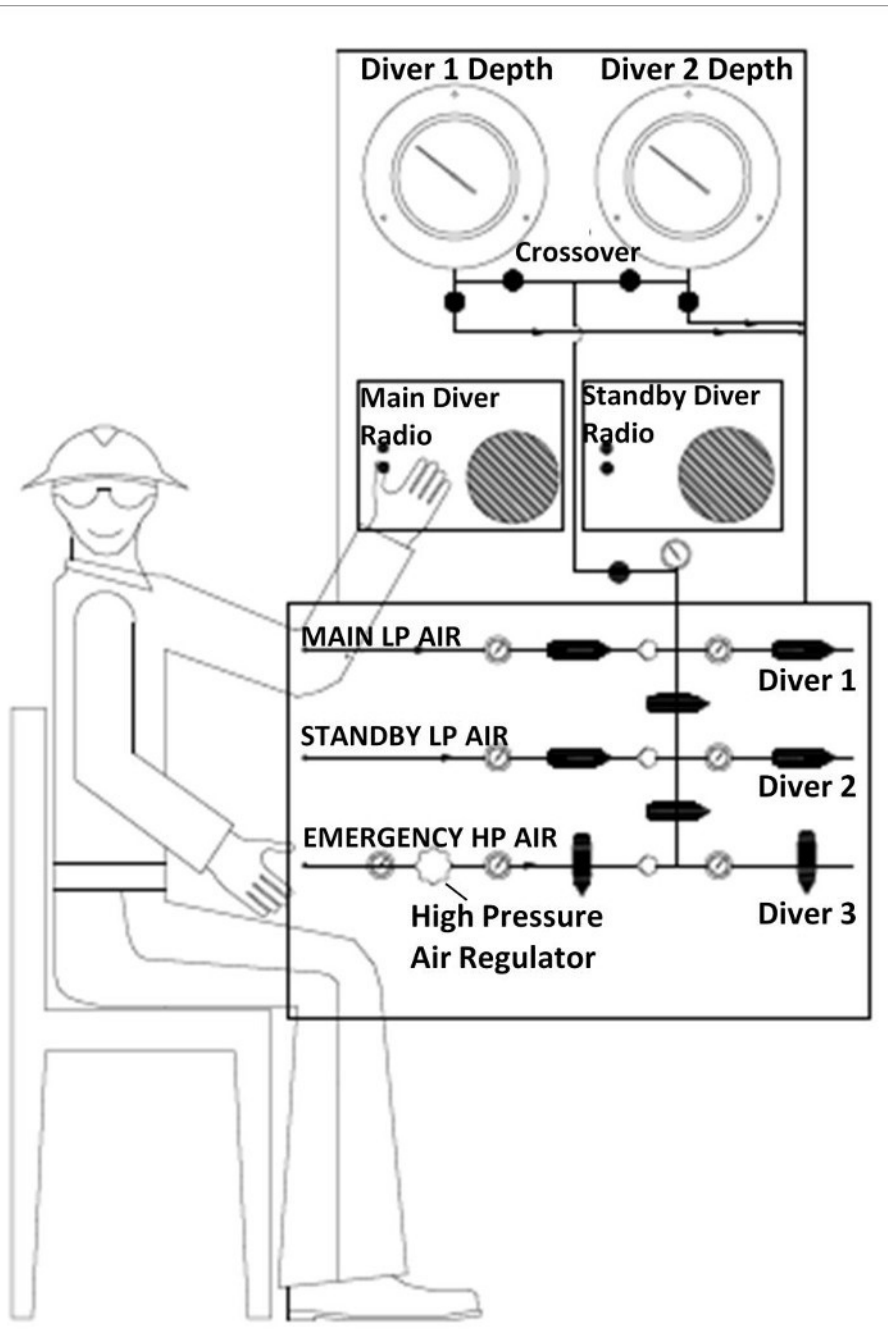
If the wind is blowing exhaust fumes from other equipment on the dive compressors' intake, the Dive Supervisor can switch to HP Air

Example B:

If the Main Compressor goes down, he can switch to the Standby Compressor

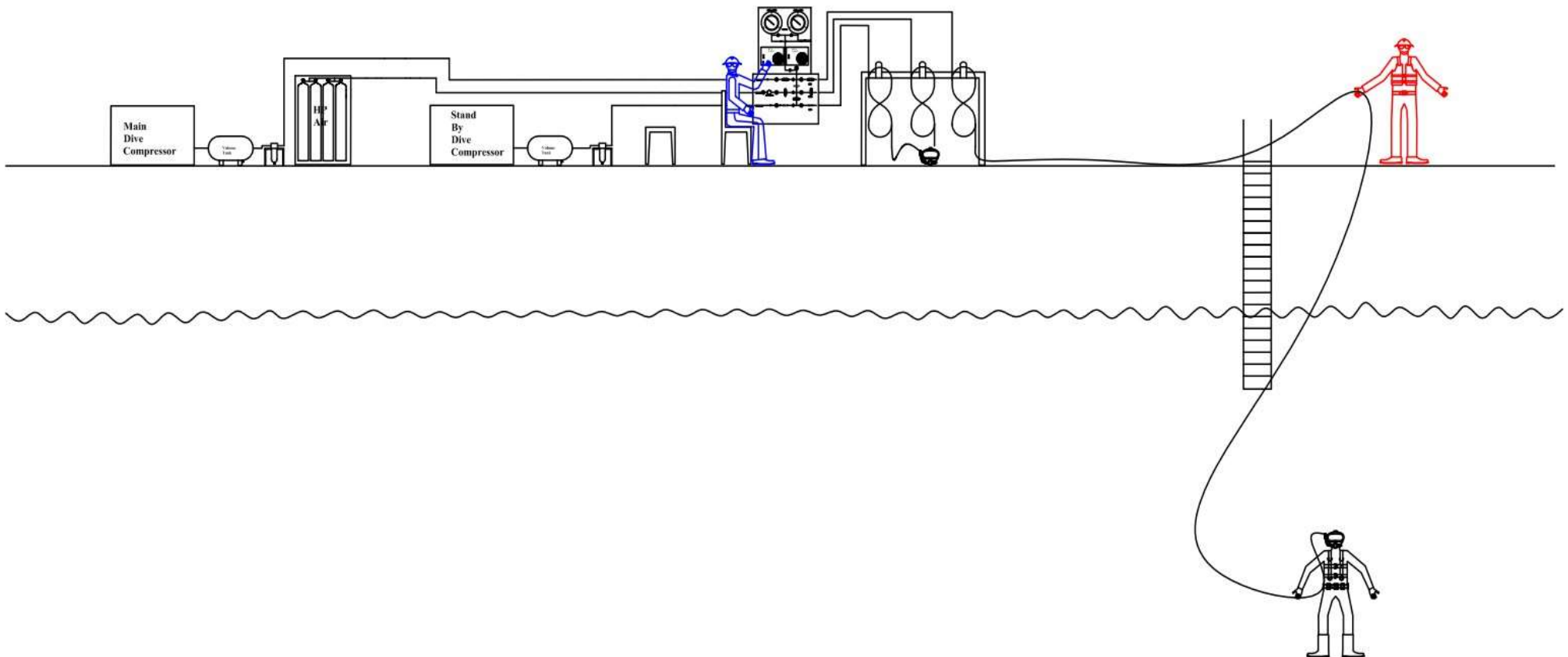
Example C:

If both the Main and Standby Compressors go down, he can switch to the Emergency Air Bottles



THREE (3) MAN DIVE TEAM

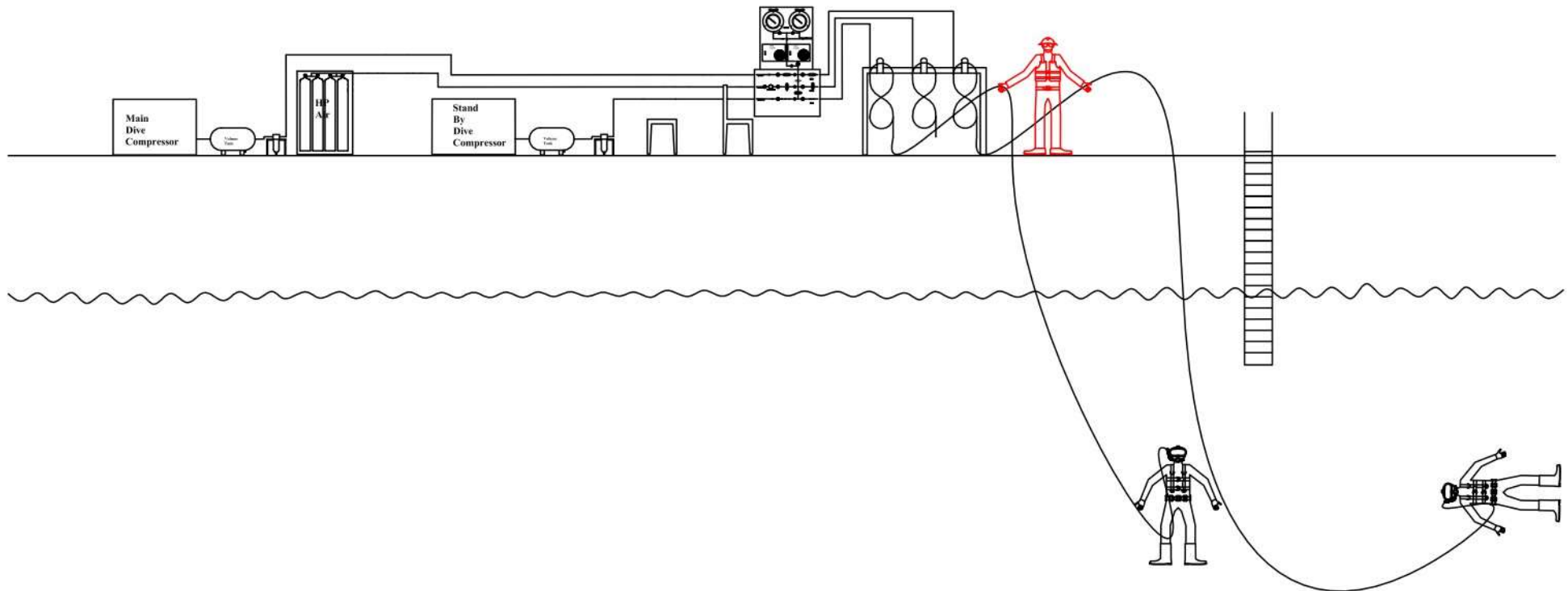
This scenario can never be acceptable. Once there is an emergency and the Rescue Diver is required to leave his post, the situation guarantees the likelihood of an accident or fatality.



THREE (3) MAN DIVE TEAM –EMERGENCY SCENARIO

In this scenario, should the Diver become incapacitated or require assistance, the Rescue Diver must leave his post at the Dive Control Panel, and spend several minutes retrieving and putting on the Standby Dive Helmet, jump into the water to rescue the incapacitated diver, pull the diver to the surface and up a 5-10 foot ladder.

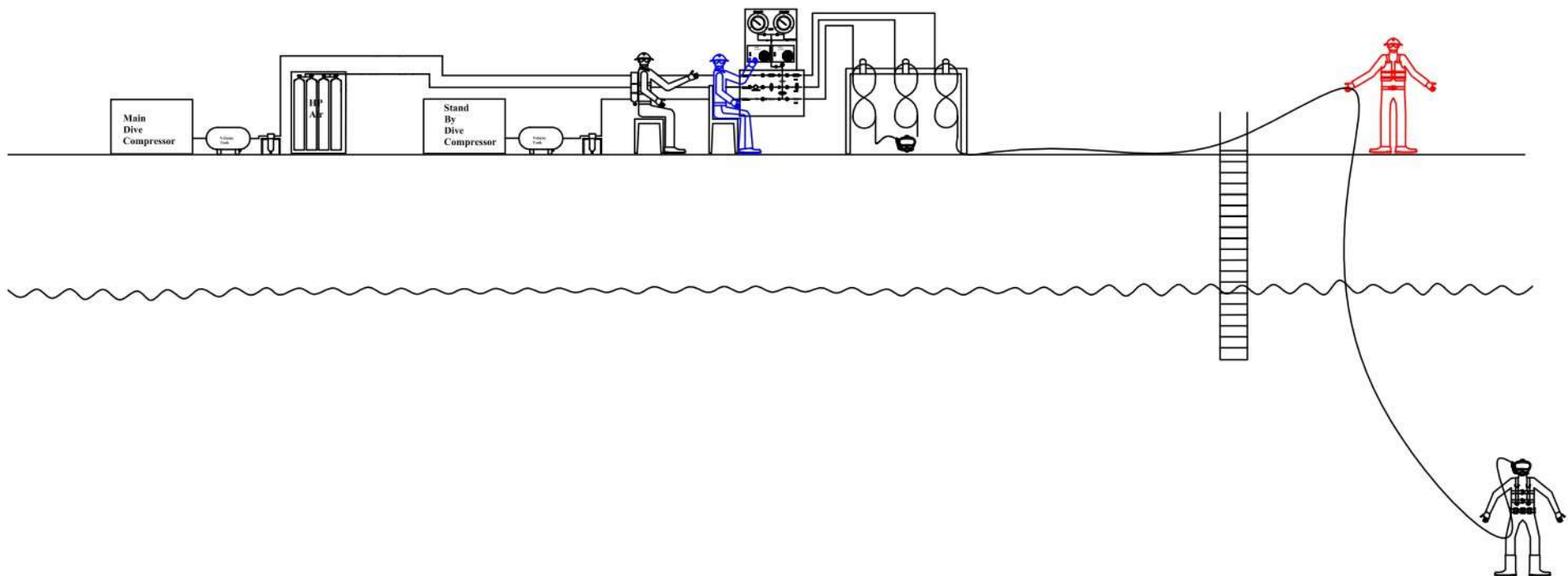
With both Rescue Diver and Diver on bottom, only one dive team member, the Tender, remains on the surface to tend both divers, run the dive panel (which he is not qualified to do), check the gates, tend the air compressors, bleed the volume tanks, get tools up and down, and radio for help. This is impossible for one person to do. The situation puts the safety and well-being of both divers in jeopardy.



FOUR (4) MAN DIVE TEAM – NORMAL SCENARIO

In this scenario, the Supervisor is monitoring the Dive Control Panel and the Rescue Diver is available to assist, but there is no 2nd Tender to:

- Check, repair, or refuel air compressors
- Drain water from volume tanks and air filters

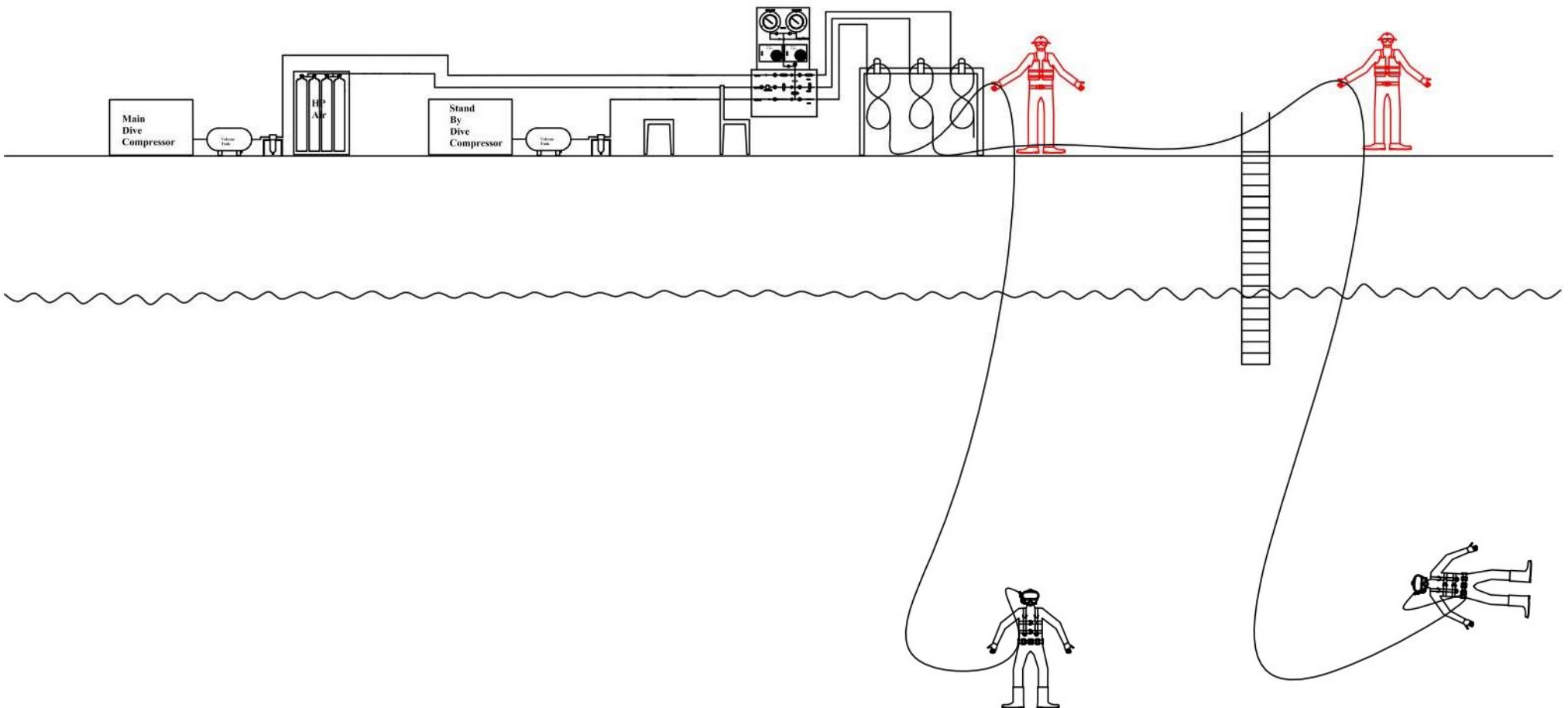


FOUR (4) MAN DIVE TEAM – EMERGENCY SCENARIO

In this scenario, the Supervisor is monitoring the Dive Control Panel and should the Diver become incapacitated or require assistance, the Rescue Diver is available to assist, but there is no 2nd Tender to:

- Open backup high pressure air bottles in an emergency
- Help Rescue Diver enter the water and tend his hose
- Help get Diver in distress out of the water

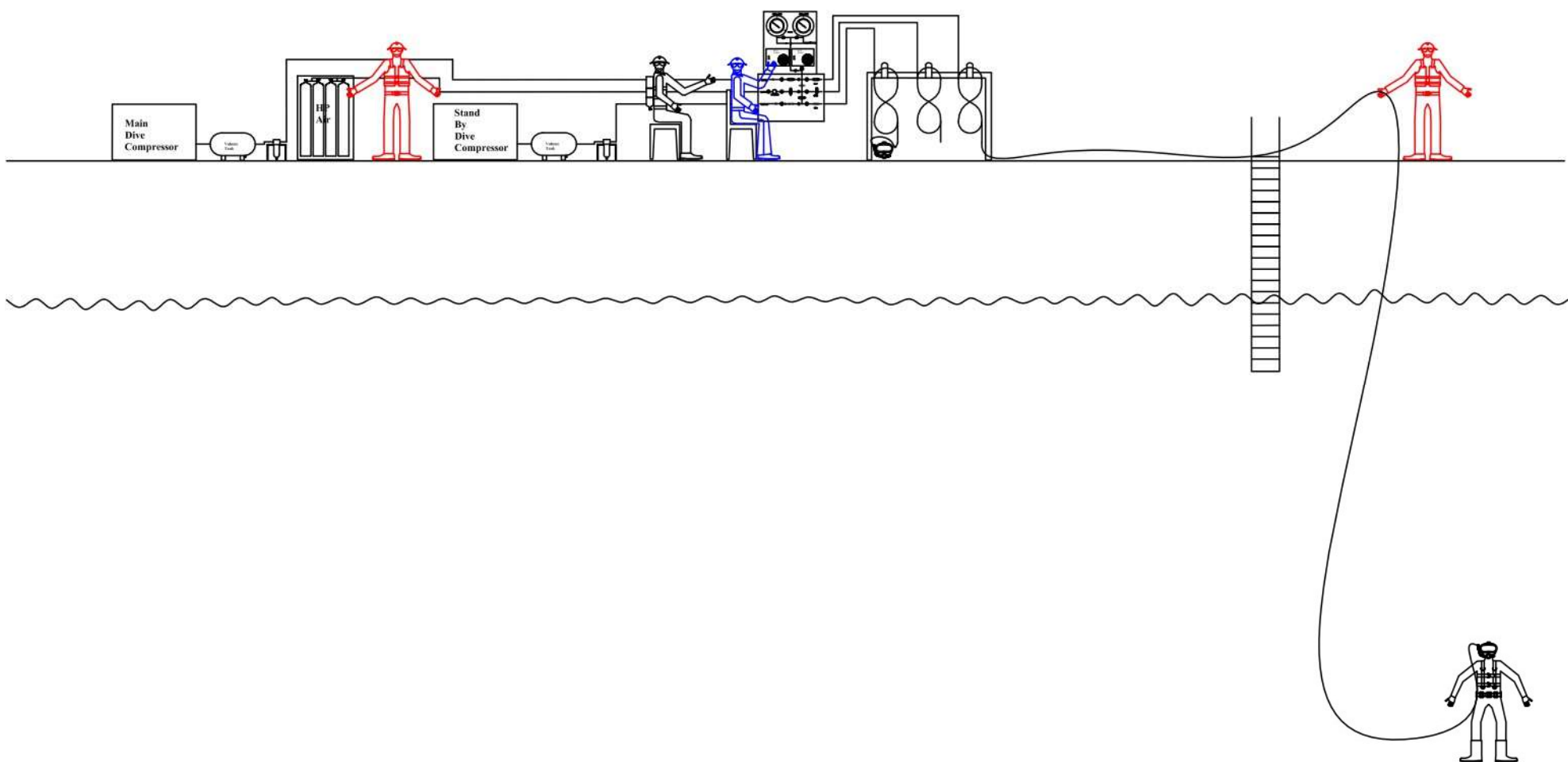
This means, in an emergency situation, the Supervisor may have to leave his post to assist divers as needed



FIVE (5) MAN DIVE TEAM – NORMAL SCENARIO

In this scenario, the Supervisor is monitoring the Dive Control Panel, the Rescue Diver is available to assist, AND there is a 2nd Tender to:

- Check, repair, or refuel air compressors
- Drain water from volume tanks and air filter



FIVE (5) MAN DIVE TEAM – EMERGENCY SCENARIO

In this scenario, the Supervisor is monitoring the Dive Control Panel, the Rescue Diver is available to assist, AND there is a 2nd Tender to:

- Open backup high pressure air bottles in emergency
- Help Rescue Diver enter the water and tend his hose
- Help get Diver in distress out of the water

This means, in an emergency situation, the Supervisor stays in place to direct the dive.

