The case of commercial sea fishing, the fish are not humanely killed as is required in most land-based slaughterhouses, in which the fish are stunned, bled, and processed. The situation in sea fishing is often different, as the fish are not stunned and the process is more likely to be humane. However, the handling and processing methods used in commercial sea fishing can still cause stress and injury to the fish.

Potential welfare problems exist only if fish have the capacity to experience pain and can feel stress or discomfort. This is because the welfare of fish is dependent on their ability to perceive and interpret their environment. For example, fish are capable of learning and remembering events, which can affect their behavior and well-being.

In some cases, fish are subjected to stressful conditions, such as being caught in nets, being transported to markets, or being held in tanks for extended periods. These conditions can cause stress and reduce the fish's ability to adapt to new environments, which can affect their health and welfare.

In conclusion, the welfare of fish in commercial sea fishing is a complex issue that is influenced by a variety of factors, including the type of fishing method used, the duration of the fishing process, and the conditions in which the fish are held. To improve the welfare of fish in commercial sea fishing, it is important to consider the potential welfare problems and to implement measures to minimize stress and improve the welfare of fish.