



**Underwater Training Facility's
&
Hyperbaric Deep Diving Simulation Systems**

Auxilium Offshore B.V.



Design | Engineering | Construction
System Integration | Operational Support | Consultancy

Auxilium Offshore is an independent company which consults and delivers project development of mission equipment.

We are a dynamic and ambitious company who provides professional expertise to serve international defence forces for challenging projects worldwide on a high service level.

Our expertise includes the entire process of project and operational optimisation; from initiation to delivery, support and aftercare. This also involves the whole process of consulting clients, from design, engineering and construction, to system integration, and operational support.

Specialized projects like Underwater Training Facilities (UTF) and Hyperbaric Deep Diving Simulation Systems (HDDSS) are a part of Auxilium Offshore's portfolio, in which every design or requirement can be built according the client's specifications.



Underwater Training Facility & Hyperbaric Deep Diving Simulation System

Introduction



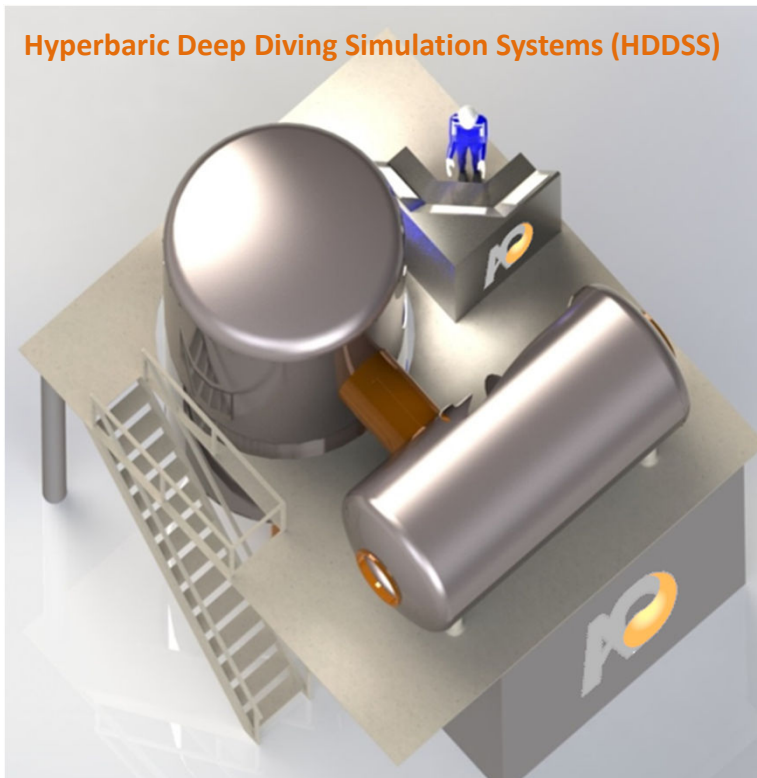
The Underwater Training Facility (UTF) is a facility used for a wide range of activities. The UTF can be used for:

- Simulate several diving activities;
- Instructors train submarine crew how to act in an emergency situation;
- Various diving emergency procedures can be trained and simulated;
- Simulate working techniques required to complete underwater tasks;
- Submarine escape training.

Underwater Training Facilities (UTF)



Hyperbaric Deep Diving Simulation Systems (HDDSS)



The Hyperbaric Deep Diving Simulation System (HDDSS) is a system used for a wide range of activities. The HDDSS can be used for:

- Test breathing (life-support) equipment;
- Test working techniques required to complete underwater tasks;
- Check divers' mental and physical abilities;
- Simulate deep diving in a controlled environment;
- Diving equipment training.

Underwater Training Facility

Main components



1. Control Station

Control station consists of communication and video system, located at the top level. This is necessary to conduct safe operations.

2. Wet bell

Optional wet bell used to train wet bell diving activities and procedures for commercial use.

3. Training platform & handling equipment

Optional training platform to simulate diving and emergency procedures. Various designs are possible according to client's specifications.

4. Submerged Chamber

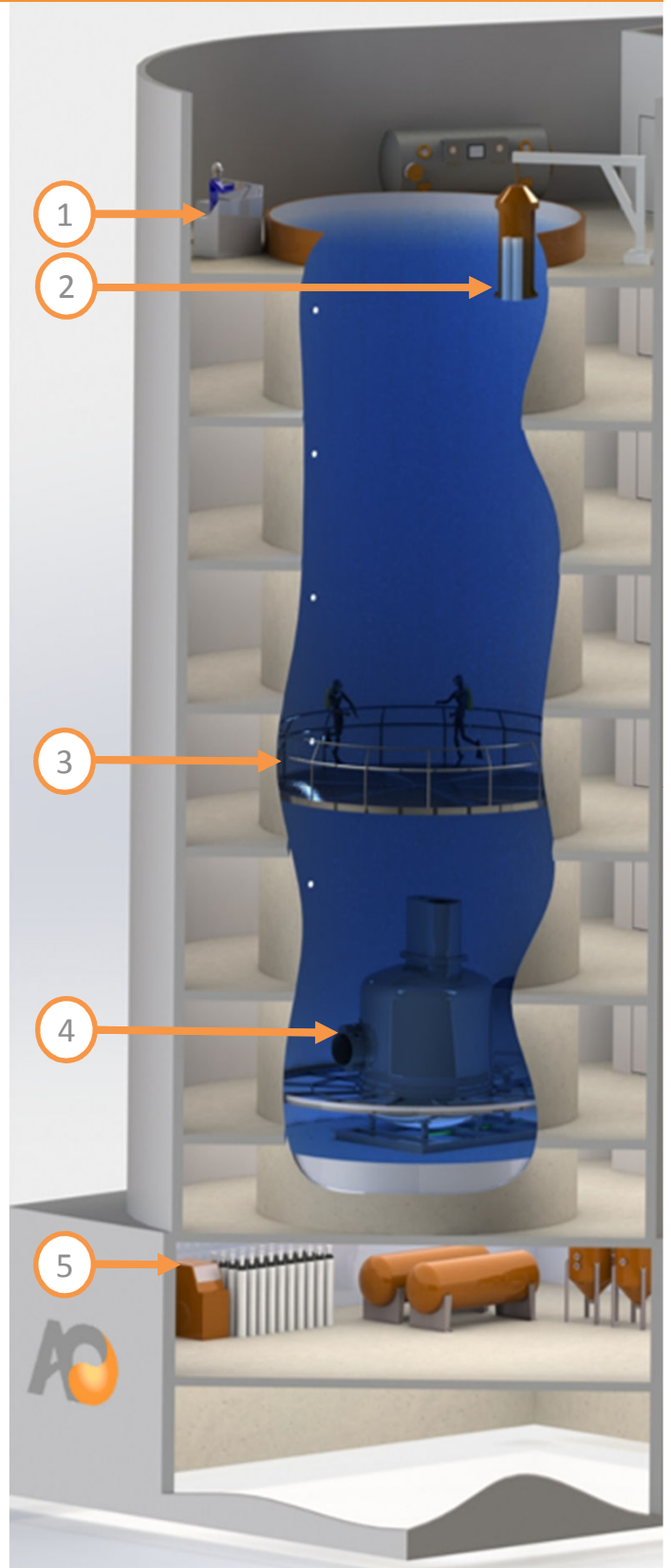
Submerged chamber located at the bottom of the basin used as escape module to simulate submarine procedures.

5. Gas Supply

High and low pressure breathing gas system including gas storage.

BIBS masks & Escape Suits

Specifically used for submarine escape procedures.



Underwater Training Facility

Typical lay-out



1. Hyperbaric treatment chamber

Necessary to achieve high standards of safety. Design can be realised according to client's specification. This chamber can also be used for training purposes for commercial diving.

2. Wet bell & handling equipment

Various designs are possible according to client's specifications.

3. Basin equipped cameras & lights

Basin can be equipped according clients specification.

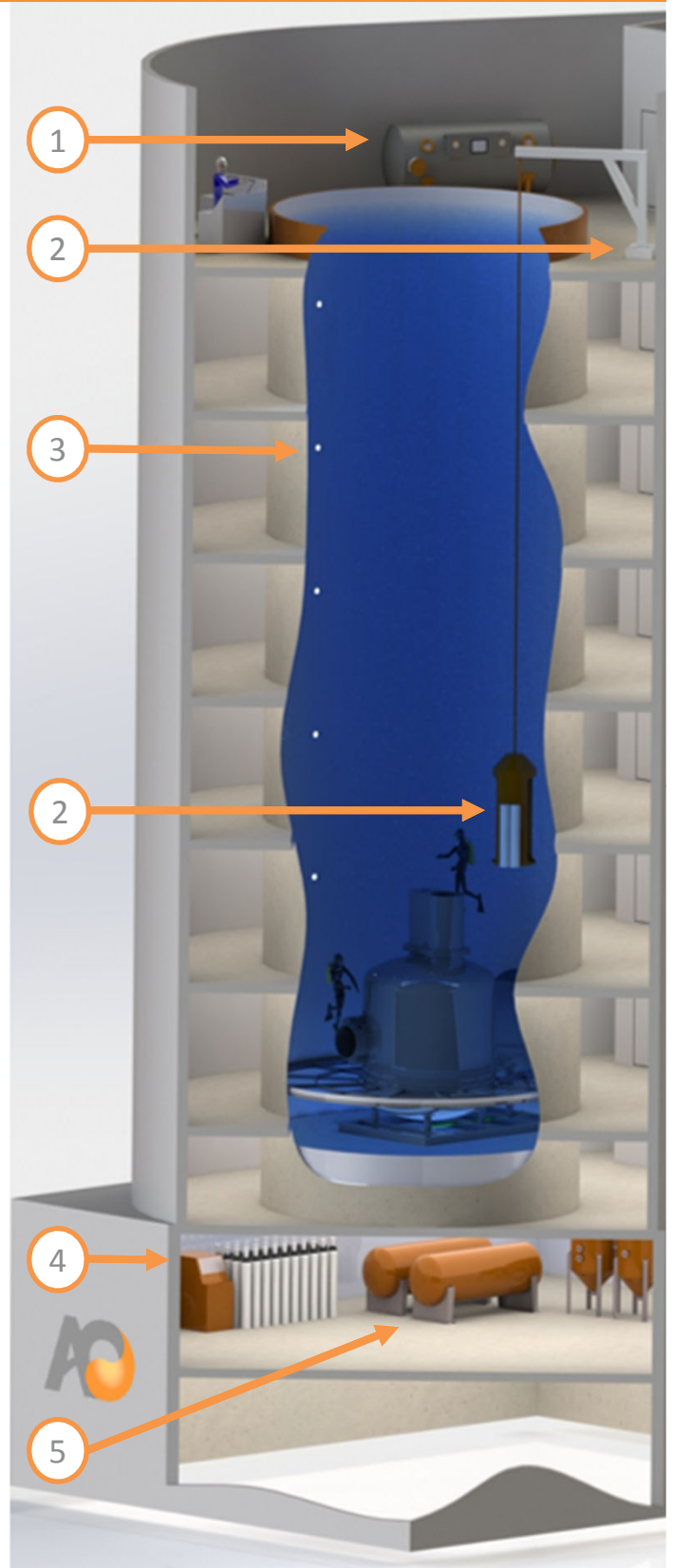
Machinery room includes:

4. Compressors

High and/or low pressure compressors to maintain sufficient breathable gas storage.

5. Water management system

Water management system consists of pumps and water filtration equipment in order to maintain water cleanliness and to achieve high safety standards.



Hyperbaric Deep Diving Simulation System

Main components



1. Wet-Pot chamber

Partially flooded compartment to simulate wet diving procedures.

2. Hyperbaric chamber

Connected compartment for decompression and training purposes.

3. Control console with control panels

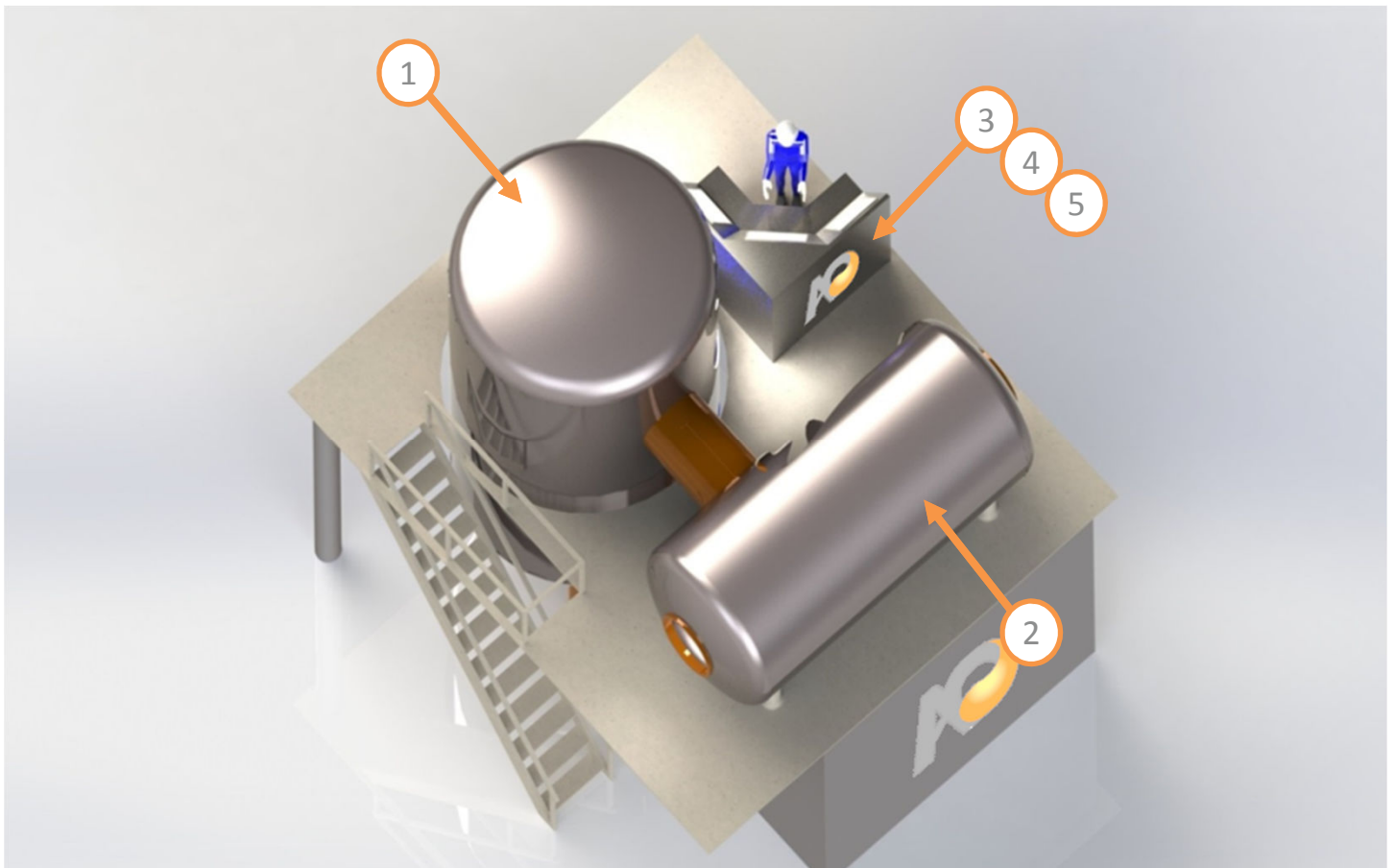
Consists of communication, video and gas management systems.

4. Computerised pressurisation / decompression and depth maintenance

Optional automated operation of compression and decompression schedules.

5. Emergency control equipment

Secondary control system for emergency use.



Hyperbaric Deep Diving Simulation System

Typical lay-out



1. Wet-Pot chamber

Complete with hyperbaric treatment chamber.

2. Control console

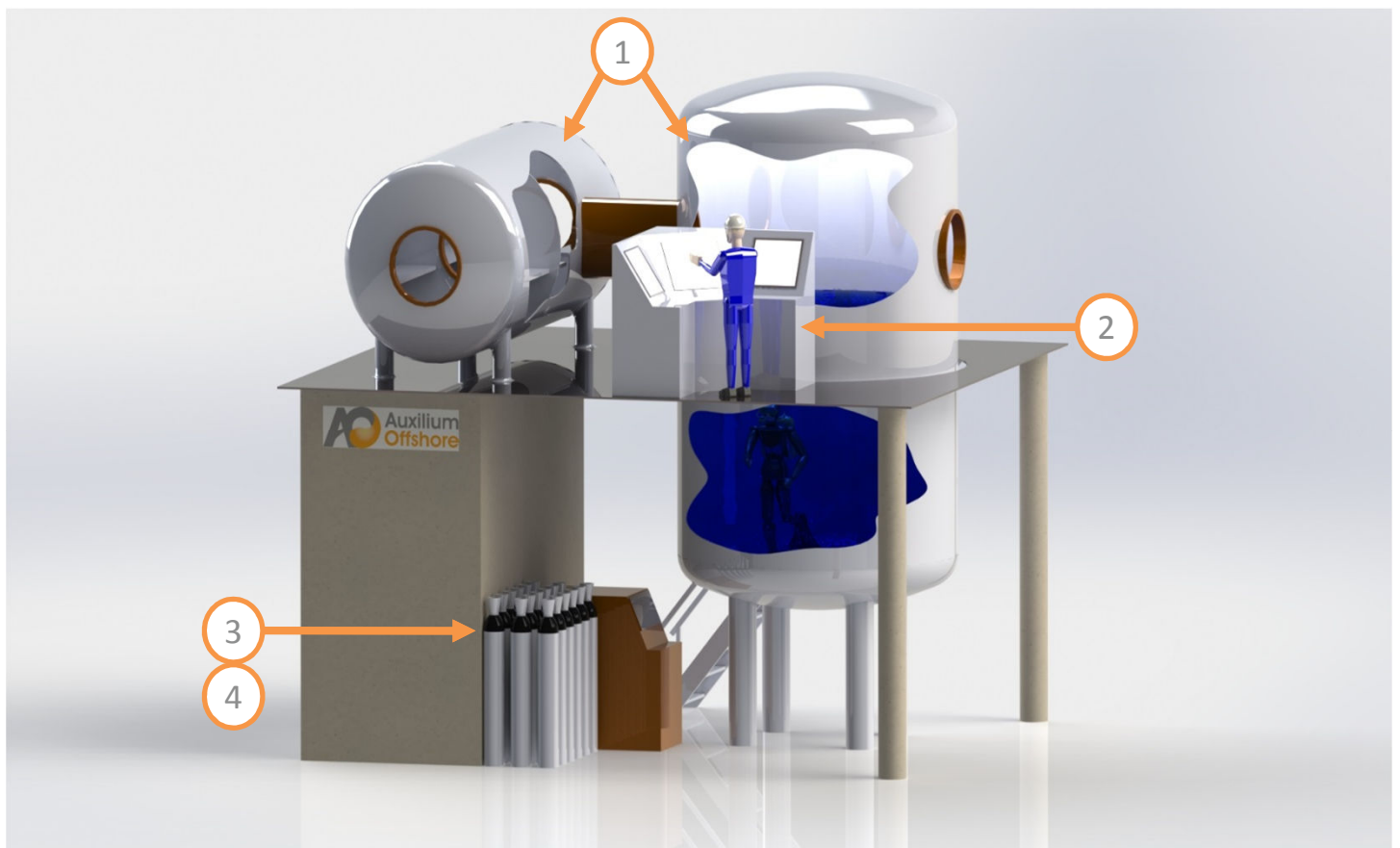
With clear observation facilities and gas management panel.

3. Machinery room

Complete with breathing gas equipment and compressors.

4. Gas storage

For oxygen system and optional mixed gas system.



Contact



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