AURORA SUBMERSIBLE
UNIQUE ENTRY OVERVIEW
I. INTRODUCTION

This presentation reviews the luxury entry configuration of SEAmagine’s Aurora submersible. Entry and exit from the submersible has been made easier by reducing the slope of the staircase. The main features of the submersible, its exceptional field of view and secure horizontal docking position remain the same.

The top deck of the submersible has a cutout with stairs leading to the hatch which continue with the same slope to the cabin floor.
This configuration offers a stair case with a 70 Degree angle from the top deck down to the cabin floor, with hand rails on the top deck walking area, on the top stairs leading to the hatch and on the stairs inside the hull. The access hatch has a large diameter for easy access (approximately 30” / 762 mm).

At surface, The Aurora adopts a tail up attitude giving a horizontal walking deck, and is docked aft to the surface support vessel. The large docking rail ensures secure docking and tie down. The top deck hand rails are raised for boarding the vessel and lowered for diving.
II. ACCESS CONFIGURATION

The Aurora in its surface mode attitude with its top deck horizontal when docked for boarding
III. DIVING CONFIGURATION

The Aurora cabin hatch is inset from the top deck which acts as a coning tower for the submersible boarding hatch when at surface. This coning tower section is drained of water when the submersible surfaces above the water line.

The top deck hand rails are retracted after boarding. Once the submersible deflates its surface buoyancy tanks, the tail drops and the submersible adopts its horizontal diving attitude. The cabin seats’ angle changes to compensate for the change in angle of the submersible.
1. During boarding the seats are tilted up to be horizontal.

2. When the submersible levels out to submerge the seats are tilted back down.

3. During the dive the submersible and the seats are horizontal.

The Aurora docked to the support ship in its surface configuration
IV. STAIRCASE CONFIGURATION

The Aurora’s staircase provides comfortable and safe boarding. The central pilot seat folds away during the boarding of passengers to provide an unobstructed walking area from the top deck to the front seats. Hand rails are provided on the top deck as well as along the stairs down the hatch.
AURORA STAIR ARRANGEMENT

- The angle of incline on the Aurora stairs can accommodate a slope of up to 70 Degrees.
- The Aurora steps are approximately 11.5” apart but can be adjusted if required.
- The Aurora’s tread run is 4.2” with an angle of 70 degree.
V. CLOSING WORDS

The Aurora’s patented design offers several solid advantages and is a culmination of SEAmagine’s technology and many years’ experience. The presented entry configuration along with the Aurora’s surface docking arrangement offers a safe and comfortable approach for boarding the submersible, while maintaining all the key features of the vessel.