

# Case Study:



*Atomic Weapons Establishment (AWE) plays a crucial role in nuclear defence, providing the warheads for the UK's nuclear deterrent. Celebrating over 70 years of service to our national safety and security*

## Problem

The client needed to communicate from internal to external of a vessel, for micro experiments requiring perfection in the quality and communication through the fibre optic terminations.

Mission critical fibre optic product.

## Solution

Alker fine tuned each one of the 12-14 processes. Tailoring each process to achieve the highest accuracy for each of the processes involved.

As a result the losses were 0.1db (98% transmissions) or better for each and every one of the 183 ends in both directions.

The results were so high and consistent and in both directions for each of the 183 ends, even AWE questioned the results.

This exercise demonstrated what is possible when quality is the driver of the product.



## Features

- ▶ Extreme test conditions
- ▶ Perfect demonstration of what is achievable in fibre optics.

Connecting the future world.....

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