Table 1. Previous and New Approach in Equipment Design

PREVIOUS APPROACH	NEW APPROACH
■ Demonstration with drawings on paper	■ 3D demonstration with touch-and-feel feature (virtual reality)
■ Demonstration on computer	■ Demonstration with actual dimensions
■ Mock-up demonstration	■ Virtual demonstration of equipment component in actual size
■ Revision with Engineering Change Proposals	■ Virtual demonstration of the entire system with other subsystems
	■ More realistic modelling
	■ Demonstration of layout design

Dr. Çonka listed the advantages of this new approach, which he described as an application of Industry 4.0, and of the process they had been experiencing with the Next Generation Operator Console, as follows:

- The efficient use of resources (time, money and manpower),
- Reduction of the probability of error and response time,
- Presentation of the design process prior to production with full visuality,
- Facilitation of the processes of the production team and stakeholders,
- Ensuring more reliable and testable demonstration,
- Paving the way to ensure full use in virtual reality.

Finally, Dr. Çonka summed up the contributions made by the new approach to future studies:

- Virtual reality ensures lasting, easily understandable and interactive training, and contributes to the instruction of qualified personnel;
- Using virtual reality, the training costs of processes such as maintenance and repair can be reduced to a minimum;
- With virtual reality, contributions can be made to the design process prior to production; and
- Human errors can be kept to a minimum and all possible scenarios can be experienced.

The Berkin Engineering team

Berkin Engineering: The Place to Go for Data Distribution Systems

Berkin Engineering was given the opportunity to introduce their products and services at the seminar they attended as an exhibition participant. During the breaks between sessions the company's stand attracted many visitors.

At the event, the solution highlighted by Berkin Engineering, a company that provides integration solutions for civil and military ships, was the Data Distribution System (DDS) product family. This family includes a Mini DDS with 18 inputs/outputs for small ships, as well as a Midi DDS with 30-60 inputs/outputs for medium ships and Real-Time DDS models for corvettes, frigates and more complex ships. Yücel Atalay, Managing Director and Owner of Berkin Engineering, noted that the DDS solutions selected for the Logistic Support Ships project meet real-time requirements with lags of less than 500 microseconds. Mesut Zafer Sarı, Business Development and Programs Director at Berkin Engineering,

In the breaks between the sessions, Berkin Engineering's stand attracted many visitors.