

Dr. Norbert Doerry

Electric Power Load Analysis

Introduction

Between 1980 and 2012, Design Data Sheet DDS 310-1 was used to estimate the electric load of surface ships for the purpose of sizing electric generators. DDS 310-1 presents a calculation method based on the connected load of all the ships' loads, and an associated load factor for each operating condition. Created in a time when most loads were small in comparison to the rating of the generators, and power systems could tolerate short-term overloads, this method was sufficient. With the growth in electric load, more and more ships are employing medium voltage distribution systems and aural transformers and/or power electronics-based power conversion. While the assumptions associated with DDS 310-1 were still generally applicable to the sizing of generators, it was not clear that these assumptions were still applicable for determining the rating of transformers and power conversion equipment. The variance in load around the long-term average due to cycling loads, and the limited overload capability of power electronics, called for improved methods to estimate load for determining the rating of equipment. Furthermore, advances in modeling and simulation offered improved insight of the electric load expected for power generation and power conversion equipment.

Recently, improving estimates for the 24-hour average load became increasingly important due to its use in estimating annual fuel consumption and selecting energy conservation projects. Previously, the 24-hour average load was used primarily by DDS 200-1 for the purpose of sizing fuel tanks. Since the electric load was typically a small fraction of the propulsion power at the endurance speed, errors in its estimation did not significantly impact the required size of the fuel tanks. Now however, the 24-hour average load is used with a speed-percent time profile to estimate a fuel rate, and to calculate annual energy usage as described in DDS 200-2. At lower speeds, the electric load may be larger than the propulsion load, hence improvements in 24-hour average estimates were needed.

In 2005, Doerry and Clayton introduced the concept of Quality of Service (QOS) to provide a metric for the reliability of the power system, and enable design decisions to achieve the desired reliability. QOS is a useful concept for determining optimal ratings of individual generator sets, energy storage, power conversion equipment, and distribution system equipment. While closely associated with the EPLA, official guidance was needed to conduct consistent QOS analysis.

A long-standing issue exists concerning the lack of guidance for the use of sea trial data to validate the EPLA. Because the assumptions on environmental conditions and energized loads are generally different from the conditions experienced during sea trials, the measured data from sea trials cannot be directly compared to the EPLA. No guidance previously existed for enabling a comparison of measured data and previous estimates.

For these reasons, NAVSEA initiated a project in 2010 to update DDS 310-1. Following extensive review within the technical community, on September 17, 2012, NAVSEA issued DDS 310-1 Rev 1, "Electric Power Load Analysis (EPLA) for Surface Ships." This revised DDS is a significant change from the previous version. As shown in Figure 1, DDS 310-1 Rev 1 is organized as a number of tasks that are interrelated. An EPLA is not required to accomplish all tasks; only those tasks that are needed for a specific purpose need be accomplished.

Electric Load List

In DDS 310-1, no differentiation was made between compiling the Electric Load List from the actual Load Factor Analysis. Because DDS 310-1 Rev 1 introduces additional methods for estimating load (modeling and simulation load analysis and stochastic load analysis), breaking out the creation of the electric load list as an independent activity is beneficial. The electric load list is essentially now a database of all electrical loads on a ship and the associated load data. Specific load data is identified in the DDS.

Electric Power Load Analysis Doerry

Michael Rajnik



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