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### **Abstract:**

The present invention relates to a heave compensation system designed to enhance the effectiveness, safety, and cost-efficiency of marine construction operations. It includes both active and passive heave compensation technologies and integrates dynamic positioning (DP1) capabilities to achieve high precision and efficiency in offshore positioning, with an accuracy of  $\pm 300\text{mm}$ . The system aims to improve overall operational performance and provides significant competitive advantages in the marine construction industry.