

## HIGH SPEED CRAFT HUMAN FACTORS ENGINEERING DESIGN GUIDE

The Guide has been produced to support the High Speed Craft industry by enhancing craft design to reduce fatigue, the risk of acute and chronic injuries, and compliance with vibration legislation. The Guide is available as a *free download* (3MB PDF file, 120 pages) at:

[www.highspeedcraft.org](http://www.highspeedcraft.org)



## STResearch Ltd

STR supply High Speed Craft  
Human Factors support & solutions for:

**RESEARCH**



**DESIGN**



**TESTING & EVALUATION**



**OPERATIONS**



**LEGISLATION**



In addition to working with major international companies and governments, STR also provides support for Small & Medium Sized Enterprises.

For further information on how STR could support your organisation please contact:

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STR.EU.COM  
**HIGH SPEED CRAFT**  
**H-SURV.COM**  
**HEALTH SURVEILLANCE**

**SHOCK &  
VIBRATION  
LEGISLATION**  
for  
**HIGH SPEED  
CRAFT**

**COMPLIANCE  
SOLUTIONS**

by

**STResearch Ltd**

STR.EU.COM



## COMPLYING WITH SHOCK & VIBRATION LEGISLATION & YOUR DUTY-OF-CARE

Complying with the European Union Physical Agents Directive, which includes Shock and Vibration exposure, is a mandatory requirement for all High Speed Craft Operators.

In the UK, the application of the legislation to the marine industry is overseen by the Maritime & Coast Guard Agency, and advice is provided in Marine Guidance Note 353<sup>1</sup>.

Compliance requires that operators undertake the following tasks:

1. Risk Assessment
2. Develop an action plan to reduce Shock & Vibration exposure where it is above the Exposure Action & Limit values
3. Employee education and training
4. Reduce Shock & Vibration exposure
  - Operational solutions
  - Equipment solutions
  - Exposure re-assessment following reduction measures
5. If required, apply for an exemption to the vibration exposure limit
6. Employee health surveillance
7. On-going updates to Risk Assessments, exposure reduction plans, and exemption applications

Further information on the legislation and the tasks required of the employer are available in a three page information leaflet available from STR.EU.COM<sup>2</sup>.

To support the High Speed Craft industry STR has developed H-SURV.

## EMPLOYER SUPPORT

The STR H-SURV programme offers the following benefits to the High Speed Craft operator/ employer:

- ▼ Compliance with legislation
- ▼ Duty-of-Care Demonstration
- ▼ Demonstrate employees responsibilities for legal compliance
- ▼ Improved employee health
- ▼ Improved employee effectiveness
- ▼ Reduced working days lost
- ▼ Reduced cost of sick leave
- ▼ Reduced risk of acute and chronic injuries
- ▼ Reduced employee fatigue

## EMPLOYEE SUPPORT

The STR H-SURV programme offers the following benefits to the High Speed Craft crew/passenger/ employee:

- ▼ An understanding of the legislation and the health risks
- ▼ Reduced risk of injury
  - Acute
  - Chronic
- ▼ Improved health
- ▼ Improved effectiveness
- ▼ Reduced fatigue
- ▼ Reduced pain & soreness



**H-SURV is a suite of products that provide the operator with the solution to their legal compliance**

<sup>1</sup> [www.mcga.gov.uk/c4mca/353.pdf](http://www.mcga.gov.uk/c4mca/353.pdf)

<sup>2</sup> [STR.EU.COM/EUWBV/STR\\_EUWBV\\_info\\_sheet.pdf](http://STR.EU.COM/EUWBV/STR_EUWBV_info_sheet.pdf)