# Amended Guidance for Noise and Vibration (Other Rules/Guidances)



2018.

## HULL RULE DEVELOPMENT TEAM

## Background and contents of revision

#### 1. Reason for Amendments

To reflect the ISO 21984 which is released on April 2018.

#### 2. Amendments

- (1) From the aspect of habitability on board, vibration level limit of existing NVH-V1 reflecting IACS Rec.2013(No.132) is adjusted to ISO 21984 as follows.
  - vibration level limit for machinery control room(5 mm/s(-6 mm/s)
  - vibration level limit for offices and open deck recreation areas (4.5 mm/s(-5 mm/s))
- (2) Due to the cancelation of standard (ISO 6954) cited in guidance, this citation has been replaced with its original reference (ISO 2631-2).

Present	Amendment					
CHAPTER 1. GENERAL	CHAPTER 1. GENERAL					
Section 1 General	Section 1 General					
101. 〈omitted〉	101. 〈omitted〉					
102. Definition	102. Definition					
1. ~ 9. $\langle \text{omitted} \rangle$	1. ~ 9. $\langle \text{omitted} \rangle$					
<ul> <li>10. Frequency weighted is the quantity measured by a <u>sound</u> level meter in which the frequency response is weighted according to the frequency-weighting curve</li> <li>(1) In human response to vibration, various frequency weighting have been defined in order to reflect known or hypothesized relationships between vibration frequency and human response.</li> <li>(2) The frequency weighting used to evaluate vibration in this Guidance is for 3 directions(x, y, and z), in accordance with ISO 6954.</li> </ul>	<ul> <li>10. Frequency weighted is the quantity measured by a <u>vibrationsound</u> level meter in which the frequency response is weighted according to the frequency-weighting curve(2018)</li> <li>(1) In human response to vibration, various frequency weighting have been defined in order to reflect known or hypothesized relationships between vibration frequency weighting used to evaluate vibration in this Guidance is for 3 directions(x, y, and z), in accordance with ISO 2631-2ISO 6954.(2018)</li> </ul>					
<omitted></omitted>	<omitted></omitted>					
CHAPTER 4 VIBRATION	CHAPTER 4 VIBRATION					
<omitted></omitted>	<omitted></omitted>					
Section 5 Criteria	Section 5 Criteria					
501. General	501. General					
1. ~ 3. $\langle \text{omitted} \rangle$	1. ~ 3. <omitted></omitted>					
4. The result of each measurement is to be the overall frequency weighted r.m.s value for acceleration or velocity in accordance with <u>ISO 6954</u> .	4. The result of each measurement is to be the overall frequency weighted r.m.s value for acceleration or velocity in accordance with <u>ISO 2631-2ISO 6954.(2018)</u>					
5. The maximum value taken from the measurement data of 3 directions is to be used. $\downarrow$	5. The maximum value taken from the measurement data of 3 directions is to be used. $\psi$					

#### Present

### Amendment

#### Table 4.2 Vibration level limits(velocity: mm/s, acceleration: mm/s2)

Table 4.2 Vibration level limits(velocity: mm/s, acceleration: mm/s<sup>2</sup>) (2018)

	V1		V2		V3	
Location	veloc-	accel-	veloc-	accel-	veloc-	accel-
	ity	eration	ity	eration	ity	eration
Navigation spaces and control stations	6	214	5	179	4	143
Cabin and hospitals	5	179	3.5	125	2.5	89.5
Messroom, offices, recreation rooms, pub- lic rooms	<u>5</u>	<u>179</u>	4.5	161	3.5	125
Open deck recreation areas	<u>5</u>	<u>179</u>	4.5	161	3.5	125
Work spaces and serv- ice spaces	6	214	6	214	5	179

 $\langle END \rangle$ .

Location	V1		V2		V3	
	veloc- ity	a c c e l- eration	veloc- ity	a c c e l- eration	veloc- ity	a c c e l- eration
Navigation spaces and control stations	6	214	5	179	4	143
Accommodation spaces Cabin and hospitals	5	179	3.5	125	2.5	89.5
Messroom, oOffices,- recreation rooms, public rooms	<u>4.</u> 5	<u>161</u> 179	4.5	161	3.5	125
Open deck recreation areas	<u>4.</u> 5	<u>161</u> 179	4.5	161	3.5	125
Work spaces and service spaces	6	214	6	214	5	179
Engine control rooms	<u>5</u>	<u>179</u>	<u>5</u>	<u>179</u>	<u>4</u>	<u>143</u>

 $\langle END \rangle$ .