

### Metocean Design Criteria – In-place

Environment	1000-year Wave	100-year Wave	100-year Wind	100-year Current	10-year Wave	10-year Wind	10-year Current	1-year Wave	1-year Wind	1-year Current
<b>Waves (m)</b>										
Maximum Wave Height (Hmax)	15.0	13.2	11.4	8.6	11.5	9.9	7.5	9.7	8.3	6.2
Significant Wave Height (Hs)	8.0	7.0	6.0	4.5	6.1	5.2	3.9	5.1	4.4	3.3
Maximum Wave Period (Tmax)	12.6	11.8	10.9	9.4	11.0	9.5	8.8	10.0	9.2	8.0
Zero Crossing Wave Period (Tz)	9.6	9.0	8.3	7.2	8.4	7.2	6.7	7.6	7.1	6.1
Spectral Peak Period (Tp)	13.5	12.7	11.7	10.2	11.8	10.2	9.5	10.8	10.0	8.7
<b>Wind Speed at 10 m above MSL (m/s)</b>										
1-hour	21.1	18.9	27.0	5.0	16.8	24.0	4.5	14.6	20.8	3.9
1-minute	29.1	26.1	37.3	6.9	23.2	33.1	6.1	20.2	28.7	5.4
3-second	35.2	31.6	45.1	8.4	28.1	40.1	7.4	24.4	34.8	6.5
<b>Current (m/s) <sup>Max.</sup></b>										
Surface Current	1.43	1.26	1.26	2.10	1.11	1.11	1.85	<b>0.95</b>	0.95	1.58
<b>High and Low Design Water Levels (m)</b>										
HSWL	1.4	1.2	1.2	1.2	1.0	1.0	1.0	0.9	0.9	0.9
LDWL	0.3	0.1	0.1	0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2

The above table includes data for associated wind, wave and current conditions. For example, column 3 describes data for the 100-year wind. The 100-year 1 hour wind speed is 27 m/s. The associated maximum wave height (Hmax) for the 100-year wind is 11.4 meters and the associated surface current speed is 1.26 m/s.

The effects of shielding by the skid and/or its equipment may be considered as appropriate.

#### 5.4.2 Dynamic Loads

The dynamic loads (accelerations) to be used in the skid / package design shall be as shown in the following table. These values shall be used for both the operating and storm condition: