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|  | Energy Storage Unit (ESU) – Requirements Description Form |  |  |
|  | | | |
|  | **Section A – Project Details** | |  |
| Quotation Number |  |
| Customer |  |
| Customer Project Number |  |
| Shipyard |  |
| Shipyard Number |  |
| Classification Society | Class |
| Required DP Class | DP Class Selected |
| Additional Class Battery Notation | Class Notification Additional |
| Revision Number |  |
| Revision Description |  |
| Revision Date |  |
| Author |  |
|  | | | |
|  | **Section B – Energy Storage Sizing Requirements**  ***Enter total required kW and kWh or expected energy storage operating profile cases*** | |  |
| Total power required (kW) |  |
| Total capacity required (kWh) |  |
|  | Required battery lifetime (years) |  |  |
|  | | | |
|  | Case 1 description |  |  |
| Power required in case 1 (kW) |  |
| Duration of required power in case 1 (h) |  |
| Case 2 description |  |
| Power required in case 2 (kW) |  |
| Duration of required power in case 2 (h) |  |
| Case 3 description |  |
| Power required in case 3 (kW) |  |
| Duration of required power in case 3 (h) |  |
| Case 4 description |  |
| Power required in case 4 (kW) |  |
| Duration of required power in case 4 (h) |  |
| Case 5 description |  |
| Power required in case 5 (kW) |  |
| Duration of required power in case 5 (h) |  |
| Case 6 description |  |
| Power required in case 6 (kW) |  |
| Duration of required power in case 6 (h) |  |
|  | | | |
|  | | | |
|  | System Overview Diagram | |  |
|  | | | |
|  | **Section C – Energy Storage Unit Technical Details**  ***Enter technical details as applicable to the vessel power system design and philosophy*** | |  |
| Number of ESU |  |
| Main switchboard AC voltage (V) | Voltage Level Switchboard |
| Main switchboard AC frequency (Hz) |  |
| DC link voltage (V) | Voltage Level ESU |
| Battery type | Input Application Name |
| Converter control method |  |
| Largest motor starting current (A) |  |
| Number of shore connections |  |
| Shore connection 1 voltage levels: | |
| Level 1 high (V) |  |
| Level 1 low (V) |  |
| Level 2 high (V) |  |
| Level 2 low (V) |  |
| Level 3 high (V) |  |
| Level 3 low (V) |  |
| Shore connection 1 current rating (A) |  |
| Shore connection 2 voltage levels: | |
| Level 1 high (V) |  |
| Level 1 low (V) |  |
| Level 2 high (V) |  |
| Level 2 low (V) |  |
| Level 3 high (V) |  |
| Level 3 low (V) |  |
| Shore connection 2 current rating (A) |  |
|  | Hours to engineer ESU (h) |  |  |
|  | Days to commission ESU (days) |  |  |
|  | | | |