Template No.

CEMILAC\_PGP\_TSDCSP\_04

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**Technical Specification of DC Starting Pump**

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| <DESIGN  AGENCY  LOGO> | | **Document No.** |  | | | |
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| **Copy No. :** | 01 of N | **No. of**  **Pages :** | | < total no .of pages > |
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| **Title:** | | | | | **Project/System :** | |
| **Technical Specification of DC Starting Pump** | | | | | < Project/System Name> | |
| **LRU/System Part No.** | |
| <No.> | |
| **Critical Level** | |
| <A/B/C/D/E> | |
|  | **Name & Designation** | | | | **Signature** | |
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**Disclaimer:**

This document is a guidance document. Applicable section / table rows may be considered. Any additional details may be added. Any not applicable section/ table rows may be deleted. The template is very general and vary with process to process followed by Development Agency. The document may be fine-tuned with the TAA for finalization.

**Template for Technical Specification of DC Starting Pump**

|  |  |  |
| --- | --- | --- |
|  | Title |  |
|  | Scope |  |
|  | Function |  |
|  | Location |  |
|  | Operating Media |  |
|  | Description |  |
|  | Environmental Temperature Range |  |
|  | Operating Fuel Temperature range |  |
|  | Design Requirement:  a. Pump Performance Calibration data |  |
| b. Aircraft service ceiling |  |
| c. Pump Operating altitude |  |
| d. Maximum Operating Pressure |  |
| e. Inlet Mesh Size |  |
| f. Check Valve (Non Return Valve) |  |
| g. Proof Pressure |  |
| h. Burst pressure |  |
| i. Break-in-run |  |
| j. Leakage |  |
| k. Overall Efficiency of Pump |  |
| l. Pump Down |  |
| m. Reprime |  |
| n. Dry run capability |  |
| o. Explosion Proof Test |  |
| p. Endurance Test |  |
| q. Additional requirements |  |
|  | Electric Motor Specification:  a. Operating Voltage range |  |
| b. Nominal current |  |
| c. Starting current (in rush) |  |
| d. Overall Efficiency of Electric Motor |  |
| e. Motor Cooling |  |
| f. Speed |  |
| g. Duty cycle |  |
| h. Class of insulation |  |
| i. Enclosure |  |
| j. Bonding resistance |  |
| k. Grounding |  |
| l. Electrical Insulation resistance |  |
| m. Dielectric strength |  |
| n. Motor Controller software |  |
| o. Power Interface Requirements |  |
| p. Wiring |  |
| q. Electrical Fault containment |  |
| r. Connector Interface Requirements |  |
|  | Weight |  |
|  | Material |  |
|  | Inlet / Outlet connections |  |
|  | Mounting Attitude |  |
|  | Overall Pump Space Envelope |  |
|  | Total Technical Life |  |
|  | TBO |  |
|  | MTBF |  |
|  | MTTR |  |
|  | Reliability |  |
|  | Storage Life and Maintenance |  |
|  | EMI/EMC Requirements |  |
|  | Environmental Conditions |  |
|  | Applicable Standards and documents |  |
|  | Product support and Ground equipment |  |
|  | Packing and Transportation |  |
|  | Certification |  |
|  | Documentation |  |
|  | Marking Requirement |  |
|  | Provisional Growth potential |  |
|  | Any Other Points |  |