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CEMILAC_PGP_TSDCSP_04

Technical Specification of DC Starting Pump

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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>

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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

1	Title	
2	Scope	
3	Function	
4	Location	
5	Operating Media	
6	Description	
7	Environmental Temperature Range	
8	Operating Fuel Temperature range	
9	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	
10	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	
11	Weight	
12	Material	
13	Inlet / Outlet connections	
14	Mounting Attitude	
15	Overall Pump Space Envelope	
16	Total Technical Life	
17	TBO	
18	MTBF	
19	MTTR	
20	Reliability	
21	Storage Life and Maintenance	
22	EMI/EMC Requirements	
23	Environmental Conditions	
24	Applicable Standards and documents	
25	Product support and Ground equipment	
26	Packing and Transportation	
27	Certification	
28	Documentation	
29	Marking Requirement	
30	Provisional Growth potential	
31	Any Other Points	