

P2685

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Type of Project: New IEEE Standard

PAR Request Date: 20-Jun-2017

PAR Approval Date: 28-Sep-2017

PAR Expiration Date: 31-Dec-2021

Status: PAR for a New IEEE Standard

1.1 Project Number: P2685

1.2 Type of Document: Recommended Practice

1.3 Life Cycle: Full Use

2.1 Title: Recommended Practice for Energy Storage for Stationary Engine-Starting Systems

3.1 Working Group: Engine-starting systems (PE/ESSB/Engine Start)

Contact Information for Working Group Chair

Name: Richard Raczak

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee (PE/ESSB)

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2018

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2019

5.1 Approximate number of people expected to be actively involved in the development of this project: 20

5.2 Scope: This recommended practice covers the selection, sizing, installation design, installation, maintenance, and testing procedures that can be used to optimize the life and performance of energy storage devices and associated systems used in the starting of stationary engines. It also provides guidance to determine when such devices should be replaced.

Energy storage devices and associated systems covered by this document include:

- Batteries (lead-acid, nickel-cadmium)
- EDLCs (supercapacitors)
- Air-start systems
- Start/control battery chargers
- Parallel battery blocking diode systems ("best battery selectors")
- Monitoring systems

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: Failure of engine-driven generators to start is a major cause of data-center and other system outages. This document addresses the energy-storage portion of engine-starting systems to alleviate the incidence of such failures.

5.5 Need for the Project: There is a significant need to provide stakeholders with direction on the design and maintenance of stationary engine start energy storage systems. In addition, existing codes and regulations provide only limited guidance. Therefore, this recommended practice can be used to influence such codes and regulations.

5.6 Stakeholders for the Standard: Users of stationary engines, energy storage manufacturers, charger manufacturers, designers, authorities having jurisdiction, and service providers

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes: