Project Name: Extend SCPP TG730 from TBO 30k to 40k by PTM Implementation

Demand:
Project:

BACKGROUND

Currently, Solar Turbines are required to be overhauled after 30,000run hours with cost exposure running to $2.8 - $3.0m to execute. This overhauling involves engine exchange, and the customers are liable to be penalized by paying more for the overhauling if the engine overhaul is not done by the end of the 30,000run hours.

There is an opportunity to save cost if the time before overhaul is extended to 40,000run hours.

OBJECTIVES

- To save cost by extending the required milestone overhaul interval before 30k overhaul of TG730 through the implementation of Solar Insight for Proactive monitoring of the Turbines.

BENEFITS

- Cost optimization

SCOPE

- Identify where TBO deferral has been implemented in SPDC
- Collaborate with Solar Turbines and put controls in place
- Extend TBO

DELIVERABLES

- Extend TBO with the support of Solar Turbines and the Technical Authorities

COST SAVING

- Potential savings would be 22.5 for every hour extended, 225k for 10,000 hrs, 200k, excluding expected additional mitigation activities costs. Yearly savings is estimated at 120k, taking into account historical uptime.

ASSUMPTIONS

Assumptions:

- This has been achieved globally
- Technical Authority support
- Solar Management support
- Additional Mitigation costs 50k

KEY ACTIVITIES

- Enquiries – July 2023
- Collaborate with Solar Turbines – July 2023
- Extension of TBO – September 2023

TEAM / STAKEHOLDERS

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