Product Description
GE's Sump Evacuation System (SES) significantly reduces or eliminates bearing sump oil leaks that can occur during extended periods of low power operation or gas turbine trips of your LM6000 aeroderivative gas turbine.

Product Details
The solution: The necessary differential pressure across the bearing sump oil seals is maintained with an electric motor-driven blower installed in the air/oil separator discharge line. The blower is enabled when the high pressure rotor speed is greater than 300 rpm and when the differential pressure across the sump and ambient air is less than 8 psig:

- **Mechanical scope.** The SES upgrade includes the installation of the vacuum blower in the air/oil separator line, corresponding support structure, vibration isolators, flexible stainless steel ducting, and lifting lugs.
- **Electrical scope.** The upgrade includes the installation of a new pressure differential transmitter, vacuum blower motor, and new electrical cable to the interconnection point.
- **Control sequencing.** Modifications to control sequencing logic will be implemented based on site-specific requirements.

Customer Benefits
- **Reduced oil leaks.** GE’s SES upgrade helps maintain the necessary differential pressure across bearing sump oil seals to reduce leakage during low power operation or gas turbine trips.
- **Lower maintenance costs.** Oil leaks can lead to internal turbine rear frame (TRF) coking. By reducing the leaks, additional maintenance costs associated with TRF coking issues can be significantly reduced or eliminated.

Applicable Units

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<th>Unit</th>
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<th>LMS100</th>
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<tbody>
<tr>
<td>LM6000</td>
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