



Figure 3. 7E03 gas turbine borescope inspection access locations

Borescope inspection access locations for F-class gas turbines can be found in Appendix E.

Figure 4 provides a recommended interval for a planned borescope inspection program following initial baseline inspections. It should be recognized that these borescope inspection intervals are based on average unit operating modes. Adjustment of these borescope intervals may be made based on operating experience, mode of operation, fuels used, and the results of previous borescope inspections.

In general, an annual or semiannual borescope inspection uses all the available access points to verify the condition of the internal hardware. This should include, but is not limited to, signs of excessive gas path fouling, symptoms of surface degradation (such as erosion, corrosion, or spalling), displaced components, deformation or object damage, material loss, nicks, dents, cracking, indications of contact or rubbing, or other anomalous conditions.

Borescope	Gas and Distillate Fuel Oil	At combustion inspection or annually, whichever occurs first
	Heavy Fuel Oil	At combustion inspection or semiannually, whichever occurs first

Figure 4. Borescope inspection planning

During BIs and similar inspections, the condition of the upstream components should be verified, including all systems from the filter house to the compressor inlet.

The application of a borescope monitoring program will assist with the scheduling of outages and preplanning of parts requirements, resulting in outage preparedness, lower maintenance costs, and higher availability and reliability of the gas turbine.

Ge Frame 5 Manual

Didier Musso



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