

condition monitoring solutions

- handle changes in running conditions
- the right method for each application
- proven methods
- reliable readings
- maximum pre-warning time
- solution based on maintenance strategy

solution

windpower

by spm

Maximum up-time with lowest Life Cycle Cost

The purpose of condition monitoring is to maximize the Life Time Profit of the plant by avoiding production losses and secondary damage incurred through the failure of vital parts, primarily the generator bearings, the gearbox and the main bearings.

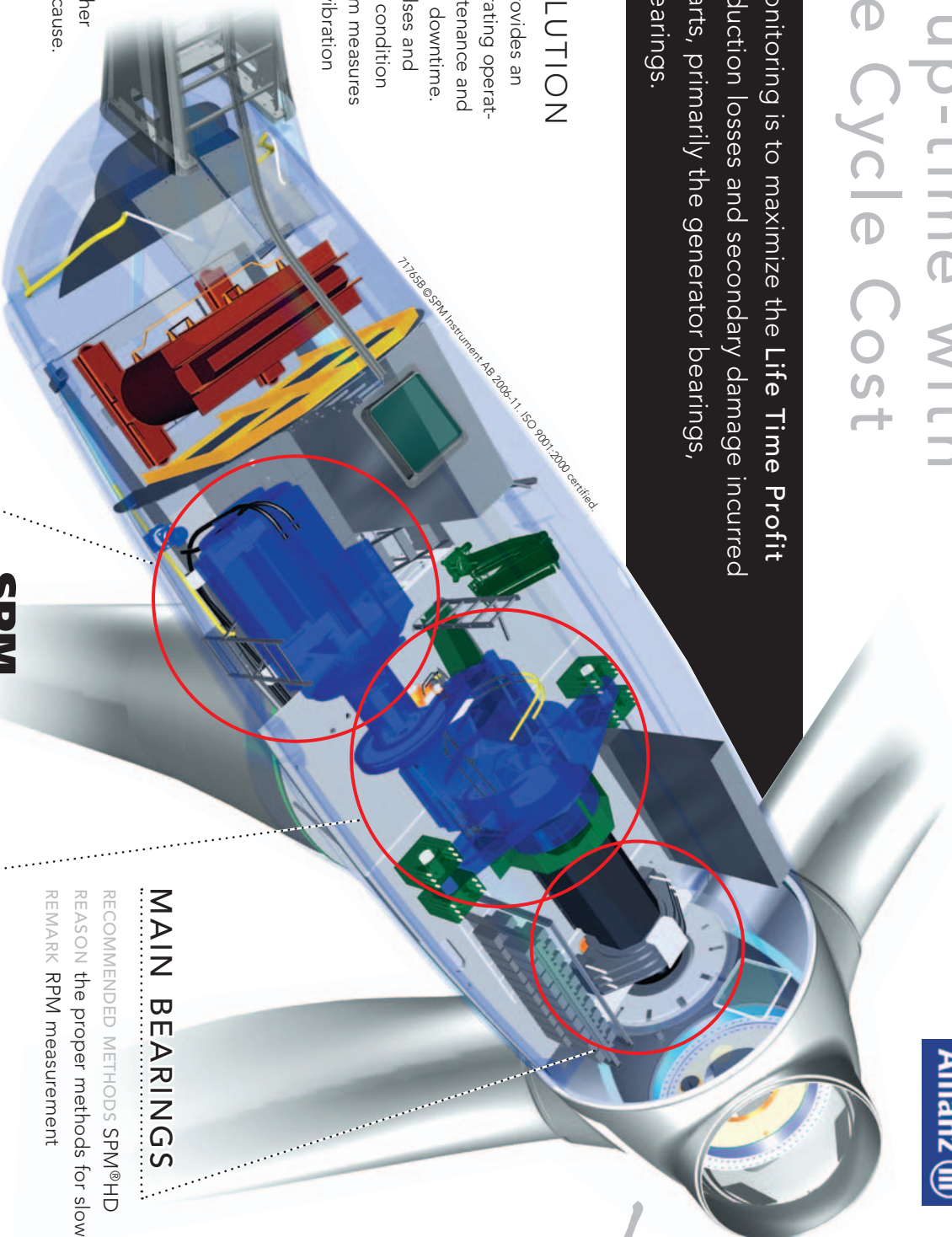
SPM WIND-FARM SOLUTION

The SPM system is very sensitive and provides an early warning of a component's deteriorating operating condition. This allows planned maintenance and replacements with the shortest possible downtime.

Monitored parameters are shock pulses and vibration, the most reliable and specific condition indicators, at preset intervals. The system measures signal amplitudes, provides shock and vibration spectra and, most important, individual values on specific fault symptoms showing the state of a bearing innerring, a gearwheel, etc.

The primary message that reaches the wind plant operator is an easy to understand condition value coded green – good condition, yellow – alert warning and red – bad condition, together with a description of its most probable cause.

SPM provides reliable and easy to handle condition information, technically and economically adjusted to the requirements of each individual plant.



Approved by



Windpower solution

by SPM

GENERATOR

RECOMMENDED METHODS SPM®HD

REASON bearing condition most common failure cause
REMARK reliable, long pre-warning time



MAIN BEARINGS

RECOMMENDED METHODS SPM®HD

REASON the proper methods for slow rotating bearings
REMARK RPM measurement

GEARBOX

RECOMMENDED METHOD SPM®HD and EVAM®

REASON coupling and gear-related problems on the high speed side of the gearbox
REMARK output power measurement