

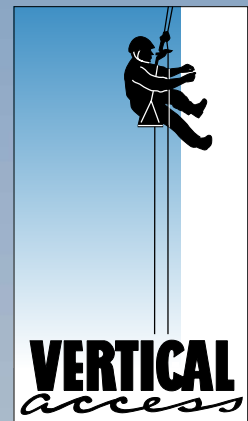
Vertical Access

has been providing inspection, testing and documentation services of buildings, infrastructure, towers and monuments using industrial rope access techniques since 1992. Vertical Access carries general and professional liability insurance, in addition to statutory requirements for worker's compensation and disability coverage.

*We are ready to serve you
in the wind energy market.*

Vertical Access LLC **tel: 607.257.4049**
Kent Diebolt **fax: 607.257.2129**
P.O. Box 4135 **kent@vertical-access.com**
Ithaca, NY 14852 **www.vertical-access.com**

Wind Energy Services





Vertical Access

is ready to offer our inspection and evaluation services to manufacturers, contractors, site managers and consultants in the wind energy market. We employ industrial rope access techniques that allow hand-on access to all of the structural components of wind turbines for maintenance and warranty inspections of blades and towers.



Strengths we bring to your team:

- extensive experience in documentation, visual assessment and non-destructive investigation of a wide variety of construction materials
- a unique computer-based system of documentation that integrates with facility management programs
- understanding of and responsiveness to client needs and goals



Vertical Access' staff of engineers, conservators and technicians have expertise in non-destructive evaluation techniques that can be applied to the inspection of wind turbine blades and towers.

Our inspection services include:

- quality control inspections of wind turbine blades and towers on-site during installation and after installation
- warranty and periodic inspections for manufacturers and site managers
- inspection of both the exterior and interior of blades and towers
- ultrasonic, acoustic emission, fiber optic and other non-destructive evaluation techniques

Using non-destructive techniques, Vertical Access can identify and document conditions, including the following:

- cracking in composite materials and metals
- laminate and coating failure
- leading and trailing edge erosion
- conditions of bolt and weld connections
- torque testing of bolt connections



Vertical Access' Tablet PC Annotation System (TPAS™) allows on-site annotation directly in AutoCAD using tablet computers and digital still and video cameras. TPAS™ can be customized to meet the specific needs of our clients.

Using TPAS™ Vertical Access provides:

- efficient collection of usable information to assist our clients in the preparation of assessments, condition reports, preliminary scopes of work, cost estimates and construction documents
- graphical representation of existing condition data in AutoCAD, facilitating interpretation and diagnosis of fault patterns and failure mechanisms
- collection of numerical data pertaining to faults to assist in cost estimating and budgeting
- “hard copies” and digital files of all of the report documents including written condition survey report, color photographs of representative and notable conditions, annotated drawings and a spreadsheet listing the quantities of each condition identified
- quick delivery of project deliverables, typically within days of the site investigation