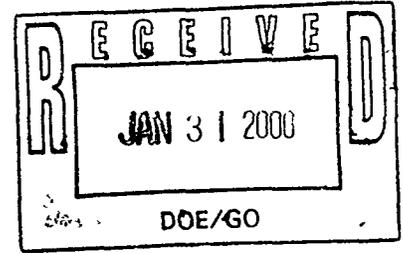


CCM

DOE/GO/10464-Q



# **NY/NJ DISTRIBUTED WIND POWER FIELD VERIFICATION PROJECT**

**Quarterly Report for the Period November - December 1999**

**Robert Putnam Jr.**

**AWS SCIENTIFIC, INC.  
251 Fuller Road  
CESTM, Suite B220  
Albany, NY 12203-3656**

**Date Published – January 2000**

**PREPARED FOR THE UNITED STATES  
DEPARTMENT OF ENERGY  
Under Cooperative Agreement  
No. DE-FC36-99GO10464  
Amendment A000**

## **DISCLAIMER**

**This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, make any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.**

## **DISCLAIMER**

**Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.**

## Significant Accomplishments this Period

1. Began preparations for host site installations.
2. Data acquisition system installation at the National Wind Technology Center (NWTC) near Boulder, CO.

## Preparations for Host Site Installations

In preparation for host site installations, AWS provided support during the period to Liberty Science Center (LSC), Jersey City, NJ and the Town of Babylon, Long Island, NY. LSC support included a visit to the Science Center on November 22, 1999 to discuss details of the installation with several key individuals including:

- Joseph Greco, Manager of Operations
- Jack O'Reilly, Facility Manager
- Karen Longo, Vice President for Membership & Development
- Ellen Lynch, Thematic Director, Environment Guest Experience
- Jim Stickler, Project Manager

Discussions focussed on permitting requirements, tower location considerations, public safety issues, environmental impacts, and performance expectations. In response to concerns over public safety, LSC would prefer to install a self-supporting tower instead of a guyed tower. To stay within the original budget for the project, the self-supporting tower would have to be 80 ft. in height as opposed to our original plans for a 120 ft. guyed lattice tower. LSC would also have to raise additional funds to cover the incremental cost associated with the larger foundation required for a self-supporting tower. The other option would be to secure additional funding for a 120 ft. self-supporting tower.

At the meeting, AWS played a videotape that was recorded during the installation of the Bergey turbine at the National Wind Technology Center (NWTC) in late October. LSC was provided a copy of the video for later viewing by other interested parties. Subsequent to the meeting, AWS provided LSC with specifications for the foundation and 80 ft. self-supporting tower, information on noise and rotor speed, the location of other Bergey EXCEL wind turbine installations on LI and in the state of Rhode Island with contact information to facilitate the possibility of a future site visit, and other information to support their funding request.

Since LSC is on state land, the only permitting agency involved in the installation will be the NJ Department of Environmental Protection. The Department provided earlier approval in 1998 for the installation of two 40 meter meteorological towers, and is not expected to raise any barriers to the turbine installation.

In preparation for the installation in the Town of Babylon, AWS provided the Environmental Conservation Committee with a copy of the installation videotape and the PowerPoint presentation made to LSC. AWS expects project approval by the Town Board in February.

The data acquisition system was installed on November 5, 1999. The start of performance testing at the NWTC has been delayed due to the need for further software modifications to the inverter's control program.

### **Plans for Next Period**

1. Begin performance testing.
2. Continue working with Host Organizations to prepare for host site installations.