



DIVISION OF  
CORPORATION FINANCE

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

January 9, 2012

Via E-mail

Barry E. Welch  
President and Chief Executive Officer  
Atlantic Power Corporation  
200 Clarendon Street  
Floor 25  
Boston, MA 02116

**Re: Atlantic Power Corporation  
Form 10-K for Fiscal Year Ended December 31, 2010  
Filed March 18, 2011  
File No. 1-34691**

Dear Mr. Welch:

We have completed our review of your filing. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filing and the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States. We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ William H. Thompson

William H. Thompson  
Accounting Branch Chief

cc: John J. Hulburt  
Corporate Controller