



DIVISION OF
CORPORATION FINANCE

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

October 4, 2011

Via E-mail

Mr. Zamir Rauf
Executive Vice President and Chief Financial Officer
Calpine Corporation
717 Texas Avenue, Suite 1000
Houston, Texas 77002

Re: Calpine Corporation
Form 10-K for Fiscal Year Ended December 31, 2010
Filed February 18, 2011
File No. 001-12079

Dear Mr. Rauf:

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/ Jennifer Thompson

Jennifer Thompson
Accounting Branch Chief

cc: W. Thaddeus Miller, Chief Legal Officer