



DIVISION OF  
CORPORATION FINANCE

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

October 13, 2010

VIA U.S. MAIL AND FACSIMILE

Byron R. Kelley  
President and Chief Executive Officer  
Regency Energy Partners LP  
2001 Bryan Street, Suite 3700  
Dallas, Texas 75201

**Re: Regency Energy Partners LP**  
**Form 10-K for Fiscal Year Ended December 31, 2009**  
**Filed March 1, 2010**  
**File No. 0-51757**

Dear Mr. Kelley:

We have completed our review of your annual report on Form 10-K for the fiscal year ended December 31, 2009 and related filings and do not have any further comments at this time.

Sincerely,

H. Roger Schwall  
Assistant Director

cc Paul M. Jolas, Esq.  
Executive Vice President, Chief  
Legal Officer and Secretary  
Regency GP LLC  
(214) 840-5208 (fax)