

Request for Additional Information No. 5021  
Letter Number 2010001  
Application Revision 2

DRAFT

8/20/2010

Bell Bend  
PPL Bell Bend LLC.  
Docket No. 52-039  
EIS 5.11 - Environmental Impacts of Postulated Accidents  
Application Section: ER PART 3

QUESTIONS for Environmental Projects Branch 3 (RAP3)

EIS 5.11-7

The response to request for additional information (RAI) ACC 7.2-2 provides estimates of individual early fatality and latent cancer risk for severe accidents at the Bell Bend Nuclear Power Plant (BBNPP) site. Clarify the units used for both risk estimates. Discuss the estimates in context of providing specific comparisons with the U.S. Nuclear Regulatory Commission (NRC) safety goals for average individual early fatality and latent cancer fatality risks from reactor accidents as set forth in the Safety Goal Policy Statement 51 *Federal Register* (FR) 30028.

Full Text (Supporting Information)

ESRP 7.2 provides for the staff to evaluate the average individual risk of an early fatality for individuals within one mile of the reactor and the average individual risk of latent cancer fatalities for individuals within 10 miles of the reactor (see Commission's 1986 Policy Statement, 51 FR 30028) for inclusion in the Environmental Impact Statement (EIS). NRC reviewed the initial response to RAI ACC 7.2-2 and determined that PPL has not clearly presented comparisons of estimates of average individual early fatality and latent cancer fatality risks to the Commission's Safety Goal Policy Statement (51 FR 30028). Specifically, PPL does not present units for risk results. Additionally, the apparent average individual latent fatality risk result of 7.36E-6 (units not given) appears to be greater than the Commission's quantitative health objective for cancer fatality risk of 2.0 E-6 per year. Therefore, present clear comparisons of the BBNPP risk estimates (including providing proper units) to the Commission's safety goals.