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September 18, 1981

Mr. Robert L. Tedesco, Assistant Director  
United States Nuclear Regulatory Commission  
Division of Licensing  
Office of Nuclear Reactor Regulation  
Washington, D. C. 20555

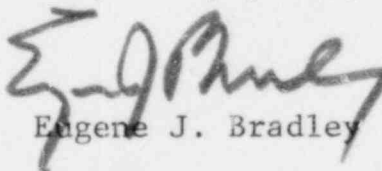
Re: Limerick Generating Station Units 1 and 2  
Docket Nos. 50-352 and 50-353

Dear Mr. Tedesco:

By letters dated March 17, 1981, and July 27, 1981, I forwarded to the Commission a total of 50 copies of the Probabilistic Risk Assessment for Limerick Generating Station. There are enclosed 50 sets of revised pages for the Probabilistic Risk Assessment. The changes are principally of a clarifying or typographical nature.

Pursuant to previous requests, we will send sets of the revised pages to Sandia National Laboratory, Brookhaven National Laboratory, the Chairman of the Board of Supervisors of Limerick Township, Region III of the United States Environmental Protection Agency, the Pennsylvania Department of Environmental Resources, and the Nuclear Regulatory Commission resident inspector at Limerick.

Very truly yours,

  
Eugene J. Bradley

Boo! S  
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EJB:mk  
Enclosures

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LIMERICK GENERATING STATION  
PROBABILISTIC RISK ASSESSMENT

The attached pages and divider are to be inserted at the end of Volume I of the Limerick Generating Station Probabilistic Risk Assessment report.

September, 1981

LGS PRA

QUESTION 720.1 (3.0 PRA)

Property damage consequences must be added.

RESPONSE

This information will be supplied during the fourth quarter of 1981.

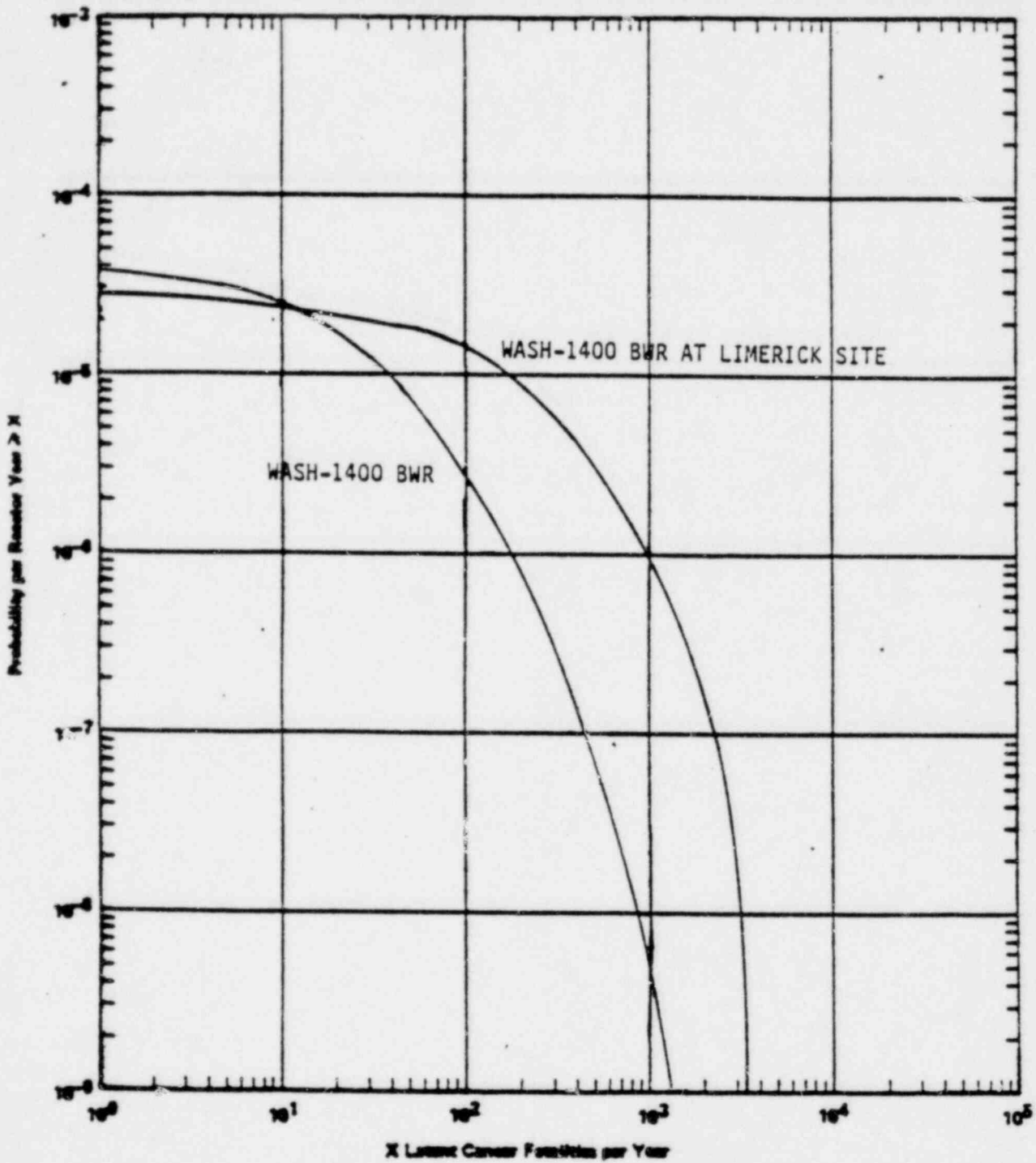
LGS PRA

QUESTION 720.2 (3.0 PRA)

Sensitivity studies for latent cancer and property damage are needed to allow comparison with WASH 1400 results based on design and site differences only.

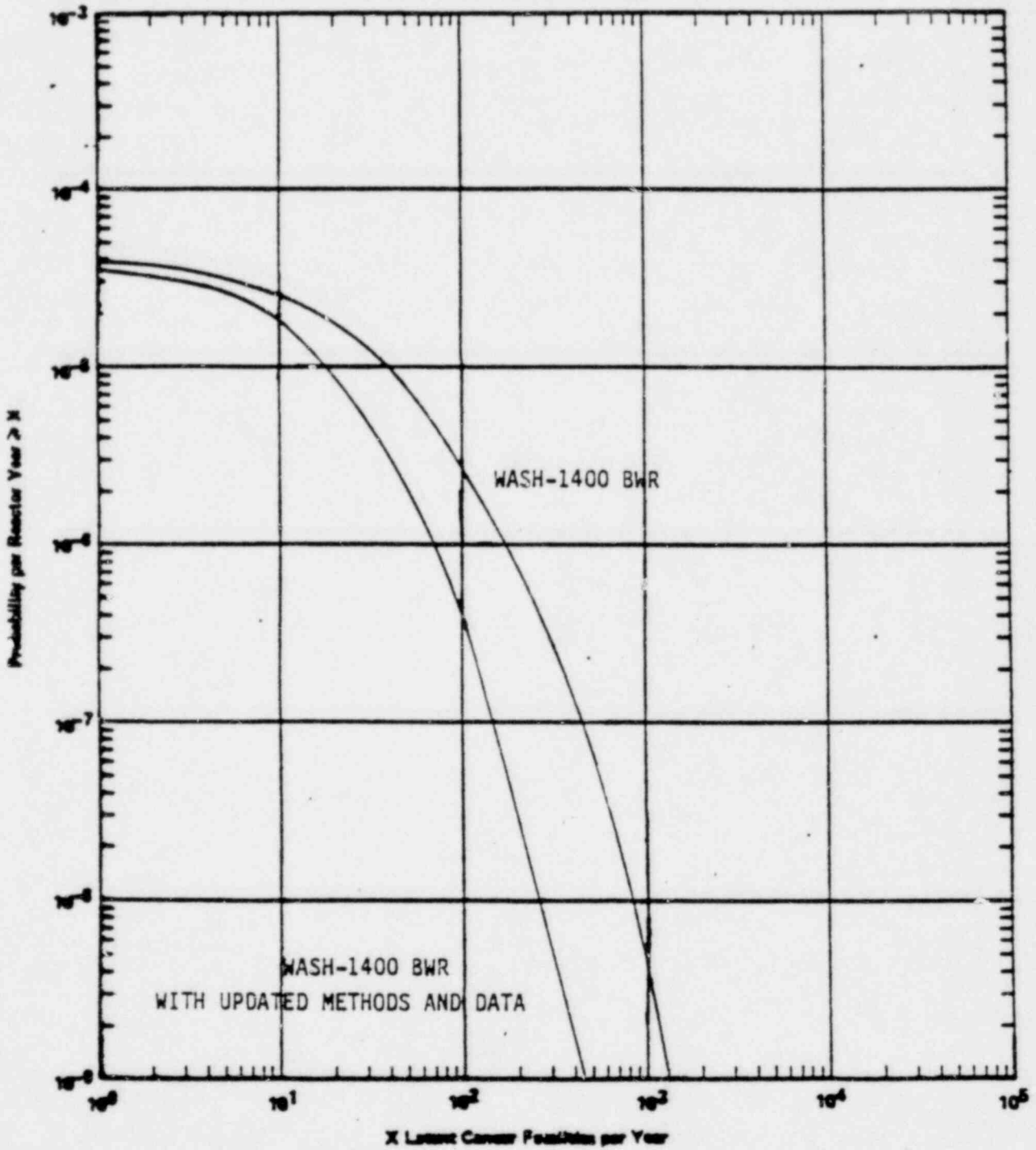
RESPONSE

Sensitivity information on latent cancer is shown on the attached figures. The information on property damage will be supplied during the fourth quarter of 1981.



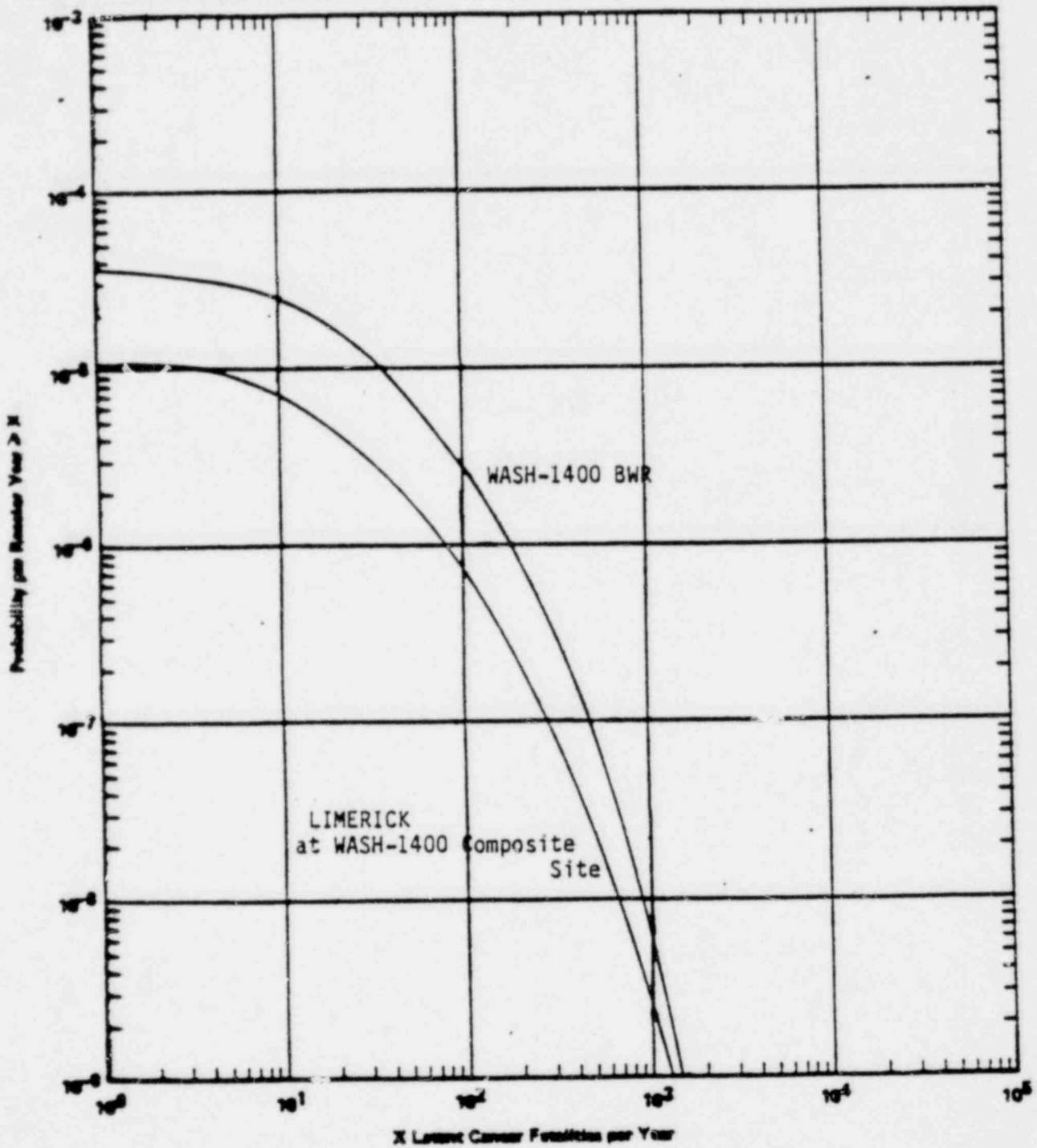
Comparison of WASH-1400 at Limerick with WASH-1400  
(Site Effects)

Figure 720.2-1



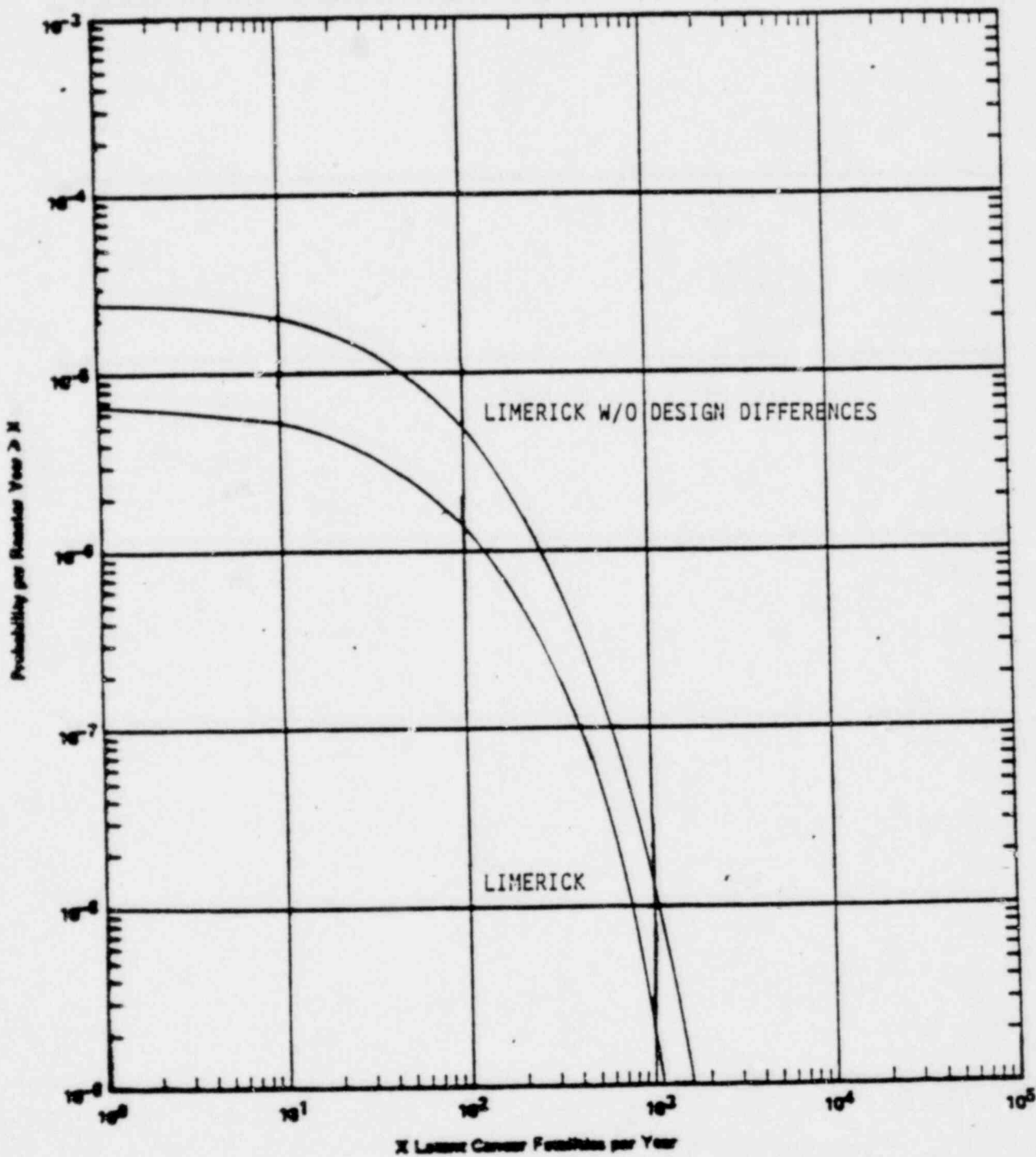
Effects of Data and Methodology

Figure 720.2-2



Effects of Design Difference

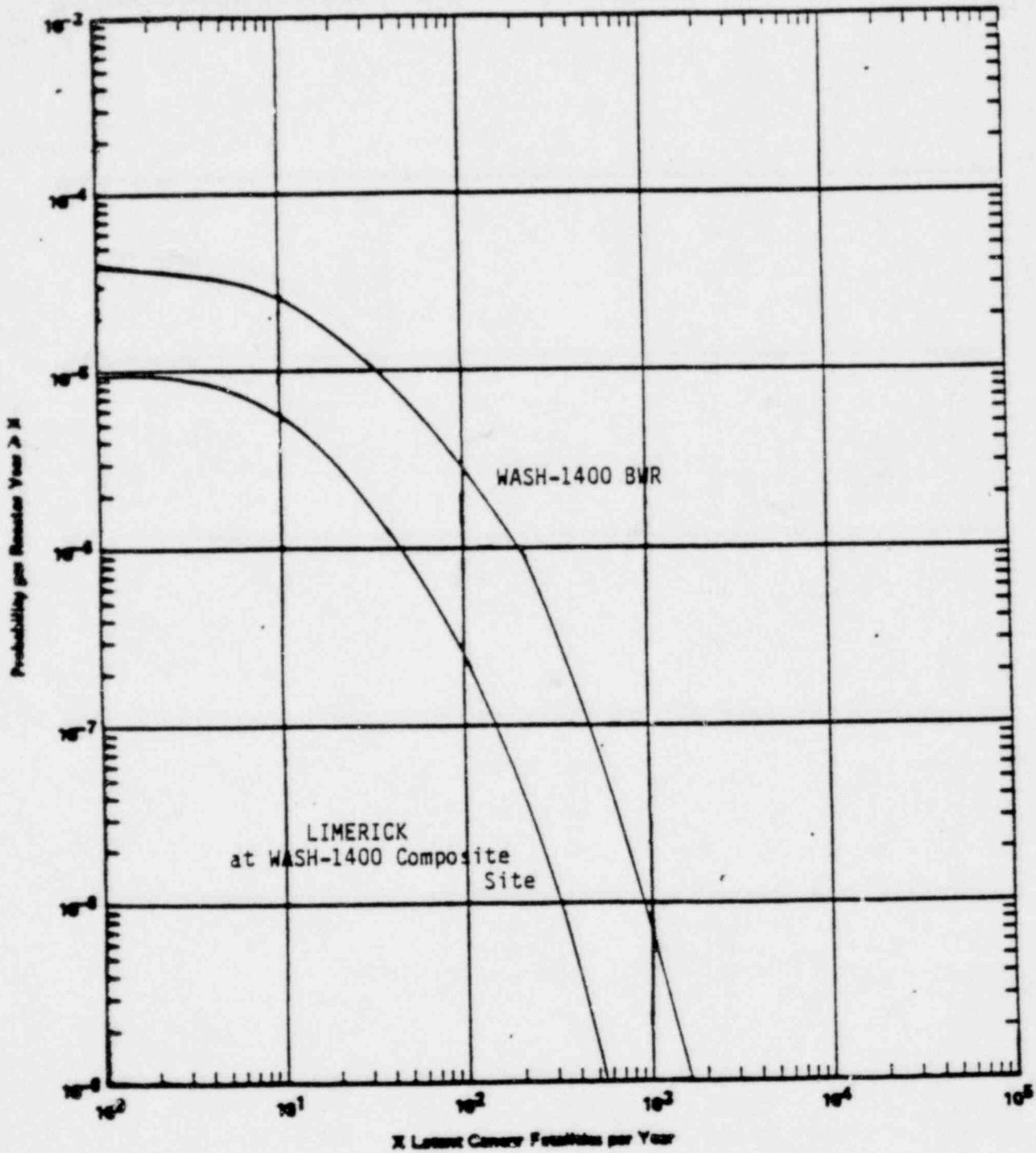
Figure 720.2-3



Comparison of Limerick with and without (W/O) Design Differences

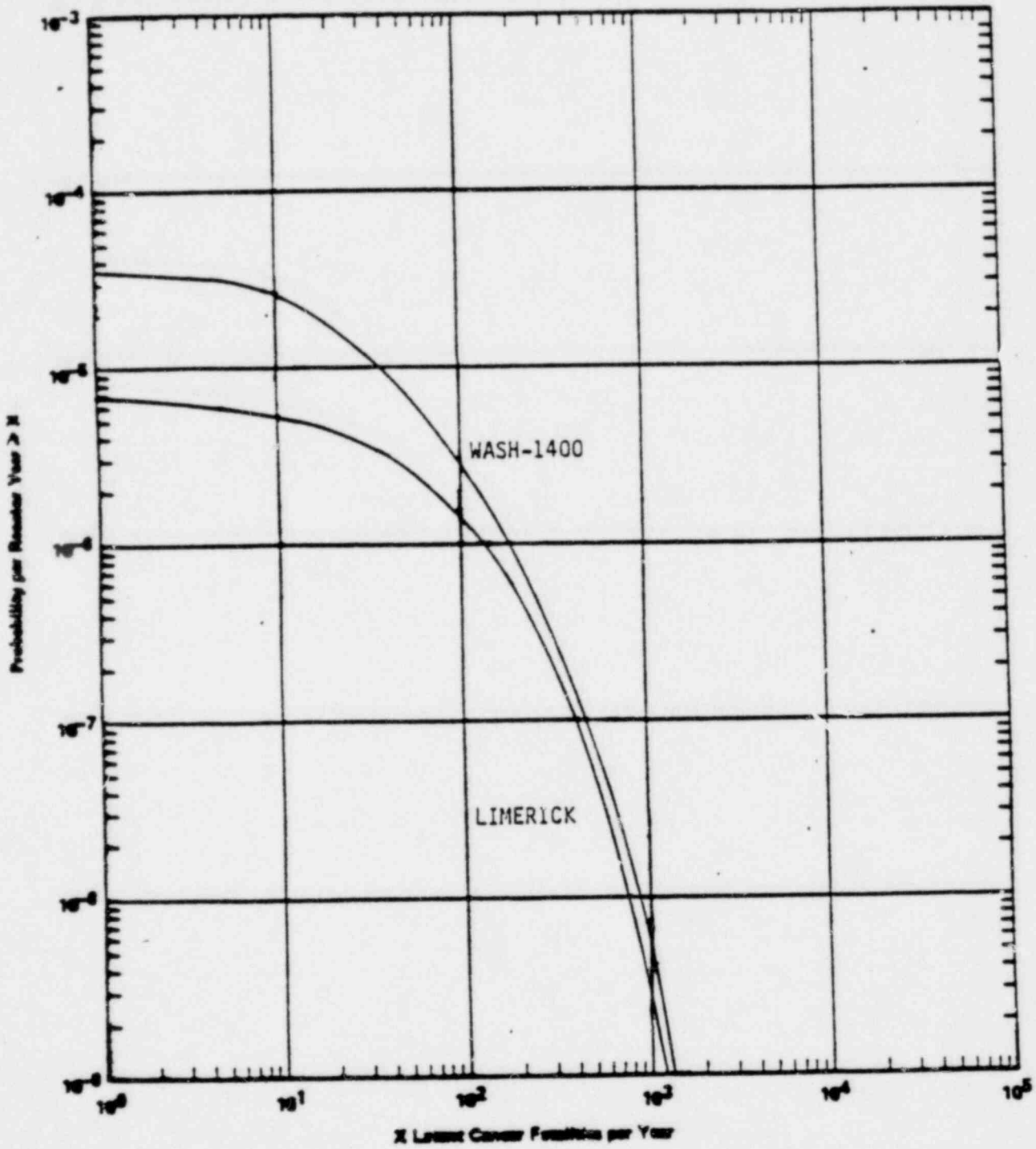
Figure 720.2-4





Effects of Design, Data, and Methodology

Figure 720.2-5



Comparison of WASH-1400 and Limerick

Figure 720.2-6

LGS PRA

QUESTION 720.3 (PRA Fault Trees)

Failure probabilities need to be added to fault trees to permit identification of major contributors to system unavailabilities.

RESPONSE

Fault trees with failure probabilities are provided under separate cover.