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1A.120

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Docket No. 50-461

Document Control Desk  
Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Illinois Power Evaluation of Potential Transportation Accidents

Dear Sir:

Illinois Power (IP) is providing this information in accordance with the Clinton Power Station (CPS) Updated Safety Analysis Report (USAR), Section 2.2.3 which contains the commitment that every three years IP will assess the shipments of hazardous materials transportation on the Gilman Line of the Illinois Central Railroad, located 0.75 miles north of CPS.

This letter updates the risks of flammable and toxic hazards associated with railroad transportation past CPS. At IP's request, the Illinois Central Railroad completed a survey of railroad traffic on the Gilman Line by reviewing their shipping records for the calendar year 1994. Hazardous materials are identified on the shipping record by a 49-series Standard Transportation Commodity Code (STCC) number. This code series includes flammable and toxic materials.

The Illinois Central Railroad survey indicated that the only hazardous materials shipped past CPS during 1994 were 88 carloads of phosphoric acid, STCC number 4930247. There were no shipments of flammable material on the Gilman Line in 1994. The total number of hazardous material shipments on the Gilman Line decreased slightly since the 1991 hazardous material survey was performed.

As part of the evaluation of phosphoric acid, a review of Regulatory Guide 1.78, Revision 0, "Assumptions for Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release," indicated that liquids with a vapor pressure of less than 10 torr may be eliminated from further consideration as a risk to plant operation. Based on information provided by the consignee of the phosphoric acid, it was determined that the 88 cars contained undiluted phosphoric acid consisting of 70% phosphorus pentoxide. This material is used to manufacture fertilizer. The vapor pressure of a 100% concentration of phosphoric acid is less than 10 torr at 100 degrees Fahrenheit. Additional evaluation of the risk to plant safety from phosphoric acid therefore is not required.

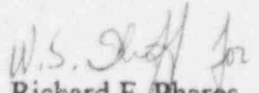
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The results of this assessment demonstrate that the risks associated with railroad transportation hazards remain acceptably low.

If you have any questions or require additional information, please contact me.

Sincerely yours,

  
Richard F. Phares  
Director, Licensing

JSP/csm

cc: NRC Clinton Licensing Project Manager  
NRC Resident Office, V-690  
Regional Administrator, Region III, USNRC  
Illinois Department of Nuclear Safety