APPENDIX I

SPRUANCE C8 ASSESSMENT

E. I. DU PONT DE NEMOURS & CO., INC.

Fibers Business

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SPRUANCE FIBERS PLANT
Richmond, Virginia
December 4, 1991

TO: J. C. MOORE - TEFLON® TECHNICAL

FROM: T. V. ROBERTSON - ENVIRONMENTAL AFFAIRS

SPRUANCE C8 ASSESSMENT

As a result of our discussions of 11/1/91, Environmental Affairs has sampled various points in the Spruance Teflon® process as well as the site wastewater treatment system for ammonium perfluorooctanate (C8). The results are contained in the attached table. C8 is used as a dispersant to make PTFE at Parkersburg. PTFE is used at Spruance to make Teflon® fiber. C8 is an impurity in PTFE and, thus, is introduced into the process at Spruance. The sampling scheme employed evaluated the C8 content at the wash water discharge in the spinning operation, in the air emissions control scrubber effluent, in the area process sewer, in the site composite process sewer (inlet to wastewater treatment system), and at the discharge of the WWTS which combines with the non-contact streams discharging to the James River.

C8 content in these samples appear in line with your earlier estimates. Assuming Outfall 002 flow of 10 MMGD, a total site effluent of 14.4 MMGD (winter time), and a James River low flow 7Q10 of 408 MMGD, a river concentration of 0.4 ppb is calculated as a worst case.

I would appreciate your comments on these sample results.

TVR:mcp
29:1.30