



Commonwealth Edison
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November 9, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Dresden Station Unit 2
Hydrogen Water Chemistry
Operating Experience Fuel
Cycle 9
NRC Docket No. 50-237

Dear Mr. Denton:

Dresden Station Unit 2 has been running full time on Hydrogen Water Chemistry (HWC) since the start of Fuel Cycle 9, beginning in March, 1983. This decision was based on the results of original testing done on Unit 2 in 1982 which showed the potential of HWC providing mitigation against IGSCC.

In conjunction with Electric Power Research Institute and the General Electric Company, an extensive monitoring program was established at the start of the Cycle 9 to quantify the benefits of HWC and to monitor specific plant parameters such as crud transport, fuel performance, and plant radiation fields. A great deal of information has been generated during the Fuel Cycle. The attached report quantifies the results and effects observed over a 17 month period during Fuel Cycle 9 along with a summary of related laboratory research. Commonwealth Edison feels the report is an accurate summary of HWC operating experience at Dresden Unit 2 and is formally docketing it for information purposes. The report strongly suggests that at Dresden Unit 2 IGSCC has been effectively eliminated since the start of the current Fuel Cycle.

Please direct any questions you may have concerning this matter to this office. One signed original and forty (40) copies of this letter are enclosed for your use. Due to the nature of the report, only six copies have been transmitted.

Very truly yours,

B. Rybak

Nuclear Licensing Administrator

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cc: R. Gilbert - NRR (w/o Att.)
NRC Resident Inspector - Dresden (w/o Att.)

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