

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO:  Mr. A. Schwenc̄er	FROM: Rochester Gas & Electric Corp. Rochester, N. Y. Leon D. White, Jr.	DATE OF DOCUMENT 4/21/77
<input checked="" type="checkbox"/> LETTER <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> COPY		DATE RECEIVED 4/25/77
<input type="checkbox"/> NOTORIZED <input checked="" type="checkbox"/> UNCLASSIFIED	PROP	INPUT FORM
		NUMBER OF COPIES RECEIVED <b>1, SIGNED</b>

DESCRIPTION	ENCLOSURE
Ltr. furnishing information regarding spent fuel pool modification.....  <p style="text-align: center;"><b>DO NOT REMOVE</b> (3-P)</p> PLANT NAME: R. E. Ginna Unit No. 1  RJL  <p style="text-align: center;"><b>ACKNOWLEDGED</b></p>	

SAFETY		FOR ACTION/INFORMATION		ENVIRO	
ASSIGNED AD:		ASSIGNED AD:		ASSIGNED AD:	
<input checked="" type="checkbox"/> BRANCH CHIEF:	<i>Schwenc̄er (S)</i>	<input checked="" type="checkbox"/> BRANCH CHIEF:		<input checked="" type="checkbox"/> BRANCH CHIEF:	
<input checked="" type="checkbox"/> PROJECT MANAGER:	<i>Wambach</i>	<input checked="" type="checkbox"/> PROJECT MANAGER:		<input checked="" type="checkbox"/> PROJECT MANAGER:	
<input checked="" type="checkbox"/> LIC. ASST. :	<i>Sheppard</i>	<input checked="" type="checkbox"/> LIC. ASST. :		<input checked="" type="checkbox"/> LIC. ASST. :	

INTERNAL DISTRIBUTION			
<input checked="" type="checkbox"/> REG FILE		SYSTEMS SAFETY	PLANT SYSTEMS
<input checked="" type="checkbox"/> NRC PDR		HEINEMAN	TEDESCO
<input checked="" type="checkbox"/> I & E (2)		SCHROEDER	BENAROYA
<input checked="" type="checkbox"/> OELD			LAINAS
<input checked="" type="checkbox"/> GOSSICK & STAFF		ENGINEERING	IPPOLITO
<input checked="" type="checkbox"/> MIPC		MACARRY	KIRKWOOD
<input checked="" type="checkbox"/> CASE		BOSNAK	
<input checked="" type="checkbox"/> HANAUER		SINWIL	OPERATING REACTORS
<input checked="" type="checkbox"/> HARLESS		PAWLICKI	STELLO
			SITE SAFETY & ENVIRO ANALYSIS
			DENTON & MULLER
			ENVIRO TECH.
			ERNST
			BALLARD
			SPANGLER
			SITE TECH.
			GAMMILL
			STEPP
			HULMAN
			SITE ANALYSIS
			VOLLMER
			BUNCH
			J. COLLINS
			KREGER

EXTERNAL DISTRIBUTION		CONTROL NUMBER	
<input checked="" type="checkbox"/> LPDR: (2) Rochester 4	NAT. LAB:	BROOKHAVEN NAT. LAB.	<b>71170107</b>
<input checked="" type="checkbox"/> TIC: Lyons, NY	REG. V. IE	ULRIKSON (ORNL)	
<input checked="" type="checkbox"/> NSIC:	LA PDR		
<input checked="" type="checkbox"/> ASLB:	CONSULTANTS:		
<input checked="" type="checkbox"/> ACRS 16 CYS HOLDING SENT	<b>AS CAT B</b>		

10-10-50



10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

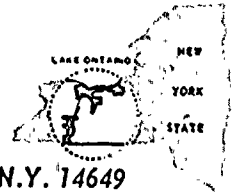
10-10-50

10-10-50

10-10-50



ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649



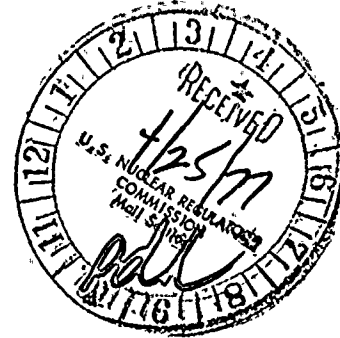
LEON D. WHITE, JR.  
VICE PRESIDENT

TELEPHONE  
AREA CODE 716 546-2700

April 21, 1977

**REGULATORY DOCKET FILE COPY**

Director of Nuclear Reactor Regulation  
Attention: A. Schwencer, Chief  
Branch No. 1  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555



Subject: Spent Fuel Pool Modification  
R. E. Ginna Nuclear Power Plant  
Unit No. 1  
Docket No. 50-244

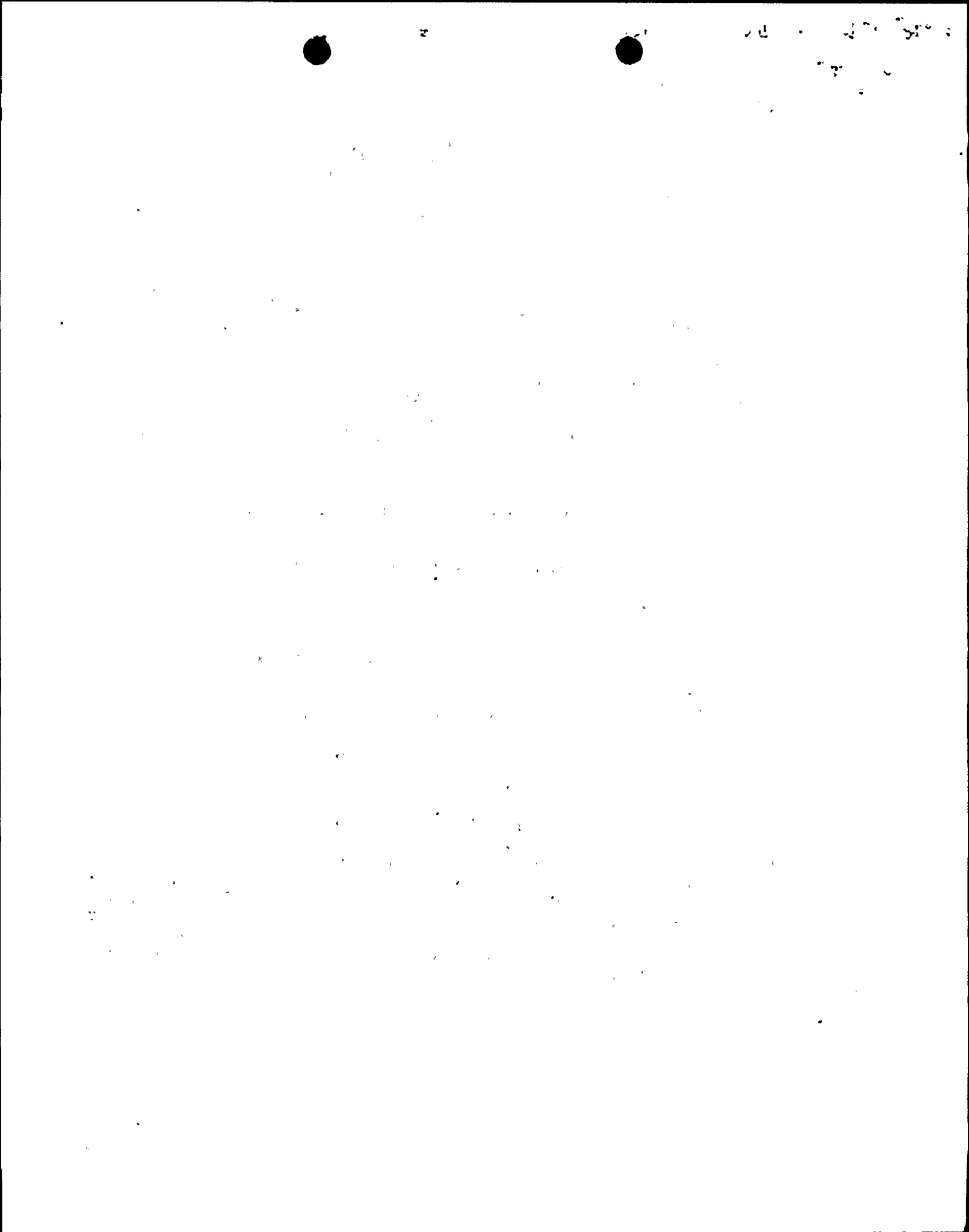
Dear Mr. Schwencer:

On November 15, 1976, the Commission issued Amendment No. 11 to our Provisional Operating License No. DPR-18 for the R.E. Ginna Nuclear Power Plant. This Amendment authorized changes in the design of the Ginna spent fuel storage pool. Pertinent to the issuance of that Amendment and the Technical Specifications thereto, there was correspondence dated January 30, May 19, June 3, August 5, and September 29, 1976. That correspondence envisioned a total of 595 fuel storage locations arranged in a checker board array (see Figure 1 of our January 30 submittal). This letter is to inform you that, by interchanging the fuel and water box locations as shown in Figure 1, the as-built spent fuel racks contain 596 fuel storage locations. However, it is physically impossible to place fuel in one of the storage locations because of interference with permanently installed pipe supports for the spent fuel pool cooling system discharge pipe. Since this storage location is permanently disabled, there are only 595 usable fuel storage locations.

Even though there are only 595 storage locations, we have been informed by our supplier that all calculations are valid for the 596 location array. In addition, we have reviewed each of our submittals in detail to assure ourselves that all analyses are valid for the 596 location arrangement. The review has demonstrated that the results of the evaluation are unchanged. Specifically, the following was reviewed:

271170108

- The seismic analysis assumed that each rack was fully loaded with fuel assemblies. Rack type A contained 70 fuel assemblies, rack type B contained 56 fuel assemblies, and rack type C contained 50 fuel assemblies. Therefore, the analysis is unchanged by the 596 location arrangement.
- The spent fuel cooling analysis was based on BTU/hr limits derived from equipment capabilities. The spent fuel pool heat load will be maintained below these BTU/hr limits. These limits and the analysis are unchanged by the 596 location arrangement.
- The individual fuel assembly cooling analysis assumed the hottest fuel assemblies were located near the east wall of the spent fuel pool. The location of the hottest assembly and the analysis are unchanged by the 596 location arrangement.
- The nuclear analysis assumed an infinite array of uniform spent fuel racks; therefore, this analysis is unchanged by the 596 location arrangement.
- The loss of spent fuel pool cooling analysis was based on the BTU/hr limits derived from equipment capabilities. These limits and the analysis are unchanged by the 596 location arrangement.
- The fuel assembly drop analysis was based on a fully-loaded fuel rack. For the cases analyzed, the rack was assumed to be fully loaded with 70 fuel assemblies. This analysis is unchanged by the 596 location arrangement.
- The structural, mechanical, and material designs are based on a fully loaded type A rack. Therefore, these designs are unchanged by the 596 location arrangement.
- The environmental impact of the modification is essentially unchanged by the 596 location arrangement. There is no change in the amount of materials required for the modification. The radiation dose calculations are unchanged. The amount of solid waste generated by the spent fuel pool is essentially unchanged and remains less than 4.1 percent of the total yearly generated solid radioactive waste. The limit on minimum spacing of freshly discharged fuel is also unchanged since it is based on a unit area.



ROCHESTER GAS AND ELECTRIC CORP.  
DATE April 21, 1977  
TO Mr. A. Schwencer, Chief

SHEET NO.

3

Our engineering procedures are presently being reviewed to ensure that this type of reporting inconsistency is prevented in the future.

Very truly yours,

*Leon D. White, Jr.*  
Leon D. White, Jr.

xc: James P. O'Reilly

APR 21 1977

1977 APR 25 AM 9 24

RECEIVED DOCUMENT  
PROCESSING UNIT