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APR 1 4 1976

Docket Files (50-263) THRU: Dennis L. Ziemann, Chief, Operating Reactors Branch #2

Attached are the answers to the questions regarding fuel usage which I forwarded to the licensee by phone Monday, April 12, 1976. Completion of the questionnaire was voluntary.

Richard P. Snaider Operating Reactors Branch #2 Division of Operating Reactors

Attachment: Answers

cc w/attach. T. J. Carter

	in		
OFFICE .	PARIONS TO	BORTON ORB	<u>1</u> 2
SURNAME	RPSnaider:ah	DLZiemann	
DATE	4/14/76	4/4/76	A

Form AEC-318 (Rev. 9-53) AECM 0240

## MONTICELLO MUCLEAR CENTRATING PLANT - 4/14/76

	KRC Question	Eclosd 1	Relead 2	Reload 3	_ Reload 4
1.	Outage Dates	3/2/73 to 5/19/73	3/13/76 co 3/21/76	1/9/75 to 2/7/75	'9/10/75 to 11/19/75
2.	Reload U235 Enrichment (w/o)	2.30	2.23/2.62	2.50	2.19
3.	Praction Pre-exposed Pre-exposure (tWD/MCU) Quantity of UC <sub>2</sub> (kg)	0 0 4.44	.178 8050/0 1.68/24.13	0 0 16.64	0 0 35.74
4.	Predicted Exposure (see notes)			-	1 1 2 2 2
5.	Average Discharge Exposure (MD)	7850	13,750	15,930	16,900
6.	Discharge G235 Enrichment (see notes)	1.53	1.15	1.04	0.98
7.	Discharge 2u239 Enrichment (see notes)	-33	-41	.62	.43
8.	Clodding Material	Zircaloy	Zirculoy	Zircaloy	Zircsloy
9.	Sufficient Reactivity	Yes	Yes	Yes	Yes
10.	Reason for Early Shutdown (see notes)				. 4 * 1
11.	Exposure Calculation Method (see notes)				- 1
12.	Energy Produced (MDc)	250,090	141,000	98,000	100,000

## MONTICELLO NUCLEAR GENERATING PLANT - 4/14/76

## NOTES OF AUDITIONAL THFORMATION

- 1. Outage dates reported are based on date of generator syncronization.
- The Reload 2 fuel includes initial core fuel reinserted after residing in the spont fuel pool for one cycle.
- 3. Fraction of fuel that was pre-exposed is based on the number of assemblies.
- 46 5. The initial core fuel was initially projected to operate 21,000 MVD. (Reloads 1 through 4 have replaced all initial core fuel; no fuel of that type remains in the reactor. No fuel of another type has been discharged to date.) It was realized that some of that fuel would be discharged prematurely to establish the equilibrium typic. Reload 1 consisted of 20 assemblies which were used to replace lesking essemblies during the curtain removal outage. Discharge of this fuel at the low exposure reported was not anticipated.
- 6a 7. The reported values represent the weight percent of the isotope with respect to the initial uranium weight.
  - 10. For each cycle, there was sufficient reactivity available to operate at full power at the time of the outage. Reactor power was restricted at the end of each cycle by voluntary administrative limits on plant offers attributed to leaking initial core luck assemblies.
  - 11. Exposure accounting is done by throc methods; using the plant process computer which evaluates incore power instrumentation, as NSP off-line simulator and a fuel supplier off-line simulator. The numbers reported above are provided by the plant process computer.
  - 12. The values reported for "energy produced" refer to the fuel cycle preceding each reload outage.