



Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

February 13, 1979

Director of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Dresden Station Units 2 and 3
Quad-Cities Station Units 1 and 2
Response to request for additional
information on Inter-Station Transfer
of Spent Fuel
NRC Docket Nos. 50-237/249 and
50-254/265

Dear Sir:

Attached is additional information requested verbally
by your Staff during a meeting in Chicago on January 3, 1979.

Attachment 1 outlines the projected number of spent
fuel assemblies to be shipped from Dresden Station to Quad-Cities
Station. Attachment 2 outlines the possible truck routes between
the two stations and populations along these routes.

Additional information concerning proposed rail routing
is being formulated and will be forwarded upon completion.

If you have any questions concerning this information,
please contact this office.

One (1) signed original and fifty-nine (59) copies of
this transmittal are provided for your use.

Very truly yours,

R. F. Janecek
Nuclear Licensing Administrator
Boiling Water Reactors

attachment

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ATTACHMENT 1

SPENT FUEL SHIPMENTS FROM DRESDEN TO QUAD-CITIES

The following fuel transfers are projected to be necessary to maximize the length of time before full core discharge capability is lost at Dresden 1, Dresden 2, Dresden 3, and Quad-Cities 1/2:

171 assemblies transferred from Dresden 1 to Dresden 2/3

265 assemblies transferred from Dresden 2 to Quad-Cities 1/2

244 assemblies transferred from Dresden 3 to Quad-Cities 1/2

These transfers will result in loss of full core discharge capability on the dates listed below:

Quad-Cities 1/2	September 1982
Dresden 1	December 1983
Dresden 2	November 1982
Dresden 3	June 1983

If capacity for only one full core discharge is maintained between Dresden 2 and 3, the time that this capability is lost extends to March 1985 for Dresden 2 and 3 and March 1985 for Dresden 1.

The following assumptions were made for these calculations:

ATTACHMENT 1

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Dresden 1

720 locations
464 core size
256 spaces available

Dresden 2/3

1,400 locations (each pool)
724 core size
676 spaces available per pool

Quad-Cities 1/2

2,920 locations
724 core size
2,196 spaces available

ATTACHMENT 2

Proposed routings for the trans-shipment of spent fuel from Dresden to Quad-Cities are Lorenzo Road east, to I-66 north, to I-80, or Lorenzo Road west, to I-47 north, to I-80; then I-80 west to I-84, and north to the Quad-Cities plant.

For the cities mentioned in the FSARs of Dresden 2/3 and Quad-Cities, updated population figures are given below. These figures are estimates for July 1, 1975 made by the Federal Bureau of Census, based on the 1970 decimal census and the 1973 revision thereof.

<u>Dresden</u>		<u>Quad-Cities</u>	
Channahon	4,649	Cordova	655
Morris	9,143	Clinton, IA	33,794
Braidwood	2,808	Rock Island	49,031
Joliet	74,401	Moline	44,568
Aurora	76,745	East Moline	19,691
		Davenport, IA	99,941

Along the proposed route and within ten miles of it lie the following major towns either not mentioned by name in the FSARs or outside the areas covered. The population figures represent the same 1975 estimate explained above.

Ottawa	18,048	Seneca	2,013
LaSalle	10,188	Marseilles	4,380
Peru	11,312	Oglesby	3,860
Bettendorf, IA	24,379	Spring Valley	5,419
Coal City	3,267	Princeton	7,012
Shorewood	3,118	Geneseo	6,696
Wilmington	4,685	Green Rock	2,993
		Silvis	4,462