



May 10, 1984

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J-8538

Janice Steven  
Project Manager  
U.S. Nuclear Regulatory Commission  
Mail Stop 316A  
Washington, D.C. 20555

*50-456/457*

Reference: Will County Water Supply -  
Braidwood Station - Commonwealth Edison Co.

Dear Ms. Steven:

Confirming our telephone discussions with Mr. John Lehr we have enclosed information on projected volumes and locations of water withdrawals from the Kankakee River in the vicinity of the Commonwealth Edison Company's Braidwood Nuclear Generating Station.

Projected water withdrawals for the Will County Regional Water System are:

Year 2000	Average:	46 cfs (cubic feet per second)
Year 2000	Maximum Day:	72 cfs
Year 2010	Average:	52 cfs
Year 2010	Maximum Day:	81 cfs

The locations of proposed water intakes in their order of preference are:

1. The preferred site is the PWC site:  
(Public Water Commission site)  
Long: 88°-06'-00" West  
Lat: 41°-14'-30" North  
River mileage from Horse Creek - 1.8 miles upstream  
Site is approximately 1 mile south of Ritchie, Illinois
2. The second possible site is the ISWS site "B":  
(Illinois State Water Survey)  
Long: 88°-09'-15" West  
Lat: 41°-18'-00" North  
River mileage from Horse Creek - 3.65 miles downstream  
Site is approximately 3000 ft. upstream from Hwy. 53 bridge

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3. The third possible site is the ISWS site "A":  
Long: 88°-12'-00" West  
Lat: 41°-21'-10" North  
River mileage from Horse Creek - 9.25 miles downstream  
Site is approximately 3000 ft. downstream from I-55 bridge

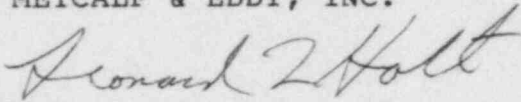
The Braidwood Station intake and discharge is reported to be located just downstream of the confluence of Horse Creek and the Kankakee River.

We also suggest that Braidwood Station operating procedures provide for prompt notification to any regional water treatment plant of radioactive emissions at any level. This should apply to both atmospheric and water emissions. Information as to amount, strength, type, projected travel path and speed would allow plant personnel to monitor, adjust treatment processes or curtail operations as necessary. This would minimize the potential for any hazard being transmitted through the water system to the water consuming public.

We will be pleased to provide other pertinent information concerning the projected Will County Regional Water System as it becomes available on request. We also look forward to reviewing additional impact statements for the Braidwood Station.

Very truly yours,

METCALF & EDDY, INC.



Leonard L. Holt, P.E.  
Project Manager

LLH/bh

cc: John Lehr  
April Richards