Distribution
Document Control (STN 50-456/457)
NRC PDR
L PDR
PRC System
NSIC

LB#1 Rdg
MRushbrook
JStevens
DEisenhut/RPurple
Attorney, OELD
ELJordan, OIE
JMTaylor, OIE
ACRS

SEP 7 1983

Docket Nos.: STN 50-456
and STN 50-457

Mr. Dennis L. Farrar
Director of Nuclear Licensing
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. Farrar:

Subject: Environmental Review of Braidwood Station, Units 1 and 2

A tour of Braidwood Station was conducted on August 23, 1983 by the NRC staff. The enclosed request for additional information was generated from the review of the Environmental Report-OL Stage and the facility tour. The subjects addressed by this information request were discussed with your staff at the conclusion of the tour.

Provide your response to the enclosed request for additional information by October 15, 1983. For further information or clarification, please contact the Braidwood Project Manager, Janice A. Stevens, on (301)492-7144.

Sincerely,

Original signed by:
B. J. Youngblood

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

Enclosure:
As stated

cc w/encl.: See next page

OFFICE	DL:LB#1	DL:LB#1					
SURNAME	JStevens:es	BJYoungblood					
DATE	9/7/83	9/7/83					

Mr. Dennis L. Farrar
Director of Nuclear Licensing
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

cc: Mr. William Kortier
Atomic Power Distribution
Westinghouse Electric Corporation
Post Office Box 355
Pittsburgh, Pennsylvania 15230

Paul M. Murphy, Esq.
Isham, Lincoln & Beale
One First National Plaza
42nd Floor
Chicago, Illinois 60603

C. Allen Bock, Esq.
Post Office Box 342
Urbana, Illinois 61801

Thomas J. Gordon, Esq.
Waaler, Evans & Gordon
2503 S. Neil
Champaign, Illinois 61820

Ms. Bridget Little Rorem
Appleseed Coordinator
117 North Linden Street
Essex, Illinois 60935

Mr. Edward R. Crass
Nuclear Safeguards and Licensing Division
Sargent & Lundy Engineers
55 East Monroe Street
Chicago, Illinois 60603

U. S. Nuclear Regulatory Commission
Resident Inspectors Office
RR#1, Box 79
Braceville, Illinois 60407

Mr. James G. Keppler
U. S. NRC Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

ENCLOSURE

REQUESTS FOR ADDITIONAL INFORMATION

ENVIRONMENTAL NOISE; BRAIDWOOD STATION
DOCKET NOS. 50-456 AND 457

E290.9 Provide construction layout drawings for the area around the transformers. These drawings should provide the details of the locations and dimensions of the main and auxiliary transformers and their firewalls.

E290.10 Provide a scaled map of the site area locating all noise sensitive areas (including homes) within a two-mile radius. Include terrain elevation differences.

E290.11 For the transformers:

a) Provide the names of the manufacturers, the equivalent two-winding ratings, the NEMA ratings and the breakdown insulation levels (BIL).

b) Indicate the type of cooling system.

c) If there is a three-phase transformer system, indicate whether each phase is in a separate tank.

d) Provide the core tone sound power levels, if available, from the manufacturer. If not known, provide the sound power level octave sound spectrum used in your noise analyses.

E290.12 For the pumphouse pumps, indicate the number, type, number of stages (if multi-stage) and HP and RPM of the pumps. Provide the noise specifications on the vertical motors that drive the pumps. Indicate the frequency of the tonal component, if any, of the pump motor noise.

E290.13 For the pumphouse transformer:

a) Provide the name of the manufacturer, the equivalent two winding rating, NEMA rating, and breakdown insulation level (BIL).

b) Indicate the type of cooling system.

c) If there is a three-phase transformer system, indicate whether each phase is in a separate tank.

d) Provide the core tone sound power levels if available from the manufacturer. If not known, provide the sound power level octave band spectrum used in any noise analysis carried out.

E290.14 Provide general arrangement and structural drawings along with locations of the mechanical service system (HVAC System) in the pumphouse showing all openings to the outside and items relating to noise.

E290.15 Concerning the compressor(s) at the pumphouse:

a) Indicate their number, type, HP, and RPM rating.

b) Indicate how these compressors are driven (diesel, electric motor, turbines) and the specifications on their drive engines (frame type, HP, RPM).

E290.16 Provide a scale map of vicinity of pumphouse showing elevations, location of nearest residences on same side and opposite side of river.

E290.17 Identify any local standards relating to noise in the region of the pumphouse.

E290.18 Describe the noise control features used to minimize noise emanating from the pumphouse. Provide the dimensions of the pumphouse (length, width, and height) and indicate the materials from which the walls, ceiling, and floor are built. Indicate the location of open louvers and their open-wall dimensions.

E290.19 Provide a copy of the ambient and operational noise measurement studies carried out by the Applicant and done for the region near the pumphouse.

E290.20 Provide the overall sound power level, the octave band sound power levels for those sources (transformers, compressors, pumps, pump motors), if known, from manufacturer's specifications.

E290.21 From the operational measurements made at the pumphouse site, indicate the decibel level in the 1/3-octave band containing the pump motor tone.