



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

7:am 8/9/85

PDR

return

to 34655



July 31, 1985

✓ 70-3000

70-3013

Mr. J. G. Davis, Director
Office of Nuclear Material Safety
and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Special Nuclear Material License 1938
For Braidwood Stations Units 1 and 2
License Application Amendments
NRC Docket Nos. 50-456/457



- References (a): June 8, 1984 E. D. Swartz letter to J. G. Davis
(b): November 19, 1984 G. L. Alexander letter to J. G. Davis
(c): January 14, 1985 E. T. Crow letter to E. D. Swartz

Dear Mr. Davis:

References (a) and (b) requested a SNM license for fuel and post accident monitoring detectors. Reference (c) transmitted SNM 1938 which authorized possession and use of the detectors, but deferred action on the fuel until a security question was answered. The purpose of this letter is to amend reference (a) in regard to two items which relate to handling of the fuel and conditions precedent to delivery of the fuel. A third item requests the addition of new material to the license.

Item #1:

Section 2.3, Accident Analysis, of the Braidwood SNM License Application (Ref. a) states that any radioactivity release from a damaged fuel assembly would be relatively minor and capable of being accommodated by the Fuel Handling Building Ventilation System. This implies that the Fuel Handling Building Ventilation System is operable during fuel receipt. Per the present preop test schedule, this system may not be operable for fuel receipt.

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FEE EXEMPT

25621

DOCKET NO. 70-3000
CONTROL NO. 3562
DATE OF DOC. 7/31/83
DATE RCVD. 8/6/83

FCUT ☒ PDR ☐
FCAP ☒ LPDR ☐
WIL ☐ INE REP. ☒
ADIR ☐ SAFEGUARDS ☒
PETO ☐ OTHER ☐

DESCRIPTION:
pertaining to
reference a, b, c
of ltr.
8/8/83
INITIAL mt

Justification

The Braidwood Fuel Handling Building Ventilation System is part of the Auxiliary Building Ventilation System. Operation of this system is not necessary in the period prior to initial fuel load when new fuel assemblies are being received and stored in the Fuel Handling Building. There is no need for special air temperature control, containment, confinement, or exhaust gas filtration during this period because there is no decay heat load and no fission product inventory. Since a new fuel assembly contains relatively minor amounts of radioactivity, the operation of the Fuel Handling Building Ventilation System would not alter the consequences of accidental damage to a new fuel assembly.

Item #2:

Section 2.2.4 of the Braidwood SNM License Application (Ref. a) describes storage and movement of new fuel. The fifth paragraph in this section describes how the checkerboard pattern will be maintained in the spent fuel pool and states that when transporting a new fuel assembly, the loaded area of the spent fuel racks will be approached from the unloaded side. It further states that during unloading, fuel assemblies nearest the unloaded side will be moved first, ensuring that assemblies are not moved across each other. These conditions will prevent loading the entire core directly from the spent fuel pool. The present controls should be replaced with the statement, "A new fuel assembly in transport will not be allowed to pass over a storage cell that is immediately adjacent to a cell that already contains a fuel assembly".

Justification

The total number of times that each new fuel assembly must be handled will be minimized. The possibility of accidental damage to the fuel will diminish, yet reasonable and satisfactory precautions are established to avoid accidental criticality.

Item #3:

Please add the following special nuclear material to the license.
6. Plutonium -239 7. sealed source 8. 2 microcuries

9. To be used for calibrating portable alpha instruments

The above material is contained in Eberline Model # S94-1.

J. G. Davis

-3-

July 31, 1985

Pursuant to 10 CFR 170.11 (3), we have determined that no fee is required.

Attached are fifteen copies of this letter for your use. If you or your staff have any further questions, please address them to this office.

Very truly yours,



Greg Alexander
Nuclear Licensing Administrator

bs

cc: N. Ketzlach-NMSS

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