



Commonwealth Edison  
1400 Opus Place  
Downers Grove, Illinois 60515

October 22, 1990

Dr. Thomas E. Murley, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Attn: Document Control Desk

Subject: Braidwood Station Unit 1  
Reactor Vessel Radiation Surveillances  
NRC Docket No. 50-456

Enclosures: WCAP 12685-Analysis of Capsule U  
from the CECo Braidwood Unit 1 Reactor Vessel  
Radiation Surveillance Program

Dear Dr. Murley:

The enclosed technical report, WCAP 12685, is submitted to you in accordance with the requirements of Appendix H of 10 CFR 50 - Reactor Vessel Material Surveillance Program Requirements. Braidwood Technical Specification Surveillance Requirement 4.4.9.1.2 requires reactor vessel material irradiation specimens be removed and examined for a change in material properties in accordance with Appendix H, Section III of Appendix H, Report of Test Results, in turn requires submittal within one year after capsule withdrawal. Capsule U was withdrawn from the Unit 1 reactor vessel on November 4, 1989 during the first refueling outage for Unit 1.

Technical Report, WCAP 12685 contains the results of the examination of Capsule U, the first capsule to be removed from the Braidwood Unit 1 reactor vessel. It summarizes the testing, data obtained and the analysis of the data as performed by Westinghouse Electric Corporation for Commonwealth Edison Company (CECo). Five copies of this report are enclosed for distribution.

The Nuclear Engineering and System Material Analysis Departments of CECo have reviewed the report and found it acceptable. Analysis of the Capsule U Test results does not indicate significant change in the  $RT_{NDT}$  values projected for the reactor vessel. Therefore, there is no need to amend the Technical Specifications requirements providing pressure-temperature limitations for operation and testing at this time.

Please direct any questions on this subject to this office.

Very truly yours,

A.R. Checchia

Nuclear Licensing Administrator

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cc: Resident Inspector - Braidwood  
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