



50-305
7ale

UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

February 3, 1970

Reference: Meeting on Feb. 11, 1970, with Wisconsin Public Service; 9:00 am
Rm. P-110

AGENDA

Kewaunee

Containment Vessel
Knuckle Reinforcing

Background - The containment vessel is designed to ASME Section III, Class B requirements, as described in the PSAR. The necessary reinforcement of the knuckle region under accident conditions is provided by concrete inside and outside of the steel shell. Through recent telephone conversations, it was learned that CB&I, the builder, has performed a code pressure test of the vessel at 1.25 times design pressure before the placement of concrete, by using temporary supports and temporary reinforcing rings welded to the inside of the vessel. It is then intended to demonstrate by a design stress analysis, that the structural integrity of the completed containment vessel, i.e., the temporary supports and reinforcing rings removed and the inside and outside concrete placed, is at least equivalent to that of the tested configuration.

Present Concern - Dr. A. Gluckmann is concerned about the ability to design the supporting concrete with sufficient margin that a pressure test is not required to demonstrate the integrity of the finished vessel. These concerns have been expressed to H. Hollingshaus, of Pioneer Services, by our Compliance inspector. Mr. Hollingshaus said that concrete for the internal supports will be poured in a few weeks and suggested a meeting on February 11, 1970, to review the design with Dr. Gluckmann.

Agenda - The following topics will be discussed:

1. A pressure test at 1.25 times design internal pressure after the concrete is installed inside the containment and after penetrations are installed to demonstrate the integrity of the finished vessel.
2. The final design of the internal and external concrete supports and the containment stresses due to design accident thermal and mechanical loads.
3. Scope and schedule for PSAR amendments to cover the above information.

Distribution:

C. K. Beck, DR ✓
M. M. Mann, DR
C. L. Henderson, DR
P. A. Morris, DRL
F. Schroeder, DRL
Assistant Directors, DRL

T. R. Wilson, DRL
R. C. DeYoung, DRL
B. K. Grimes, DRL
Branch Chiefs, DRL, DRS
Director, DRS
R. F. Fraley, ACRS
Compliance (2)

memo
Rec'd Off. Dir. of Reg.
Date 3/4/70
Time 1:45