



# Commonwealth Edison Company

72 WEST ADAMS STREET \* CHICAGO, ILLINOIS 60690

February 7, 1968

Mr. Robert L. Tedesco  
9500 Bulls Run Parkway  
Bethesda, Maryland 20034

Dear Bob:

Gene Bailey gave me the enclosed copy of the ASME case which received unanimous voice vote approval at the last main committee meeting and which is now out for letter ballot. The letter balloting on this case which will provide for the stronger than necessary plate used in the top course of the Dresden 2 vessel is scheduled to be completed by February 15. He will let me know the results as soon after that date as they are available.

He also asked me to tell you that the questions you sent him informally have been transmitted to B&W and GE and the last word from B&W is that they are making an all-out effort to get together information, records and data which they, and we, hope will satisfy you and the other members of the staff. GE's people are also working on this and it is expected that all the information will be gathered so that we can have a meeting shortly after March 1. As further information is available, I will forward it to you.

Very truly yours,

John H. Hughes  
Nuclear Licensing Administrator

REQUIREMENT FOR PLATE ASTM A-533-65, CLASS II

Inquiry

May A-533-65 Class 2 plate which is not listed in Table N-421 of Section III be used in construction of Class A Nuclear vessels in accordance with Section III and what special requirements apply to this material?

Reply

It is the opinion of the Committee that the plate conforming to the requirements of A-533 Grades A, B or C Class II may be used and the following specified special requirements apply in addition to the requirements for plate specified in Section II.

(a) The design stress intensity values for Table N-421 are listed in Table 1.

(b) The yield strength values for Table N-424 are listed in Table 2.

(c) The impact requirements for N-330 shall be met with charpy v-notch values of 35 ft. lbs. average and 30 ft. lbs. minimum.

(d) This Class II material shall receive P-number classification 12-C subgroup 1 in Table Q-11.1 of Section IX.

(e) The post weld heat treatment requirements of Table N-532 shall be those stated for P-12-C subgroup 1.

(f) Contrary to the requirements of Paragraph Q-11, V-1, A-1 and A-2, the Section IX welding procedure qualifications

with this material shall also qualify for P-number-3 and P-number-12B subgroup materials but not vice versa unless the design allows the use of weld metal having the same minimum tensile properties as the lower strength base materials.

Table 1

<u>Temperature Degrees</u> F	<u>Stress Intensity</u> Values psi
RT	30,000
100	"
200	"
300	"
400	"
500	"
600	"
650	"
700	"

Table 2

<u>Temperature Degrees</u> F	<u>Yield Strength</u> Values psi
RT	70,000
100	70,000
200	66,600
300	64,500
400	63,000
500	62,500
600	62,000
650	61,200
700	60,000
750	58,500
800	56,500