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 AUTH. NAME      AUTHOR AFFILIATION  
 WOODY, C. O.      Florida Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
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SUBJECT: Forwards results of calculations of transition temp shift as function of neutron fluence for facility reactor vessel. Util does not propose to modify Tech Spec Table 4.4-5 re surveillance capsule withdrawal schedule based on results.

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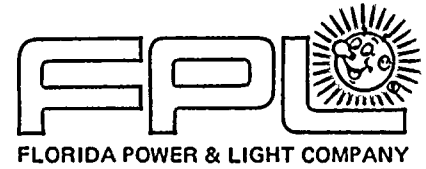
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L-87-201

U. S. Nuclear Regulatory Commission  
 Document Control Desk  
 Washington, D. C. 20555

Gentlemen:

Re: St. Lucie Unit 2  
 Docket No. 50-389  
Neutron Fluence - Reactor Vessel Beltline Materials

By letter L-87-150, dated April 1, 1987, Florida Power & Light Company (FPL) summarized its plans with regard to the St. Lucie Unit 2 reactor pressure vessel material surveillance program. This summary included FPL's intentions to develop a revised Neutron Fluence vs. Transition Temperature Shift ( $\Delta RT_{NDT}$ ) curve (Technical Specification Figure B3/4 4-1) using Regulatory Guide 1.99, Rev. 2 (Draft) methodology and St. Lucie Unit 2 - specific reactor vessel material properties. We believe that application of the draft Regulatory Guide in the development of this curve results in an extremely conservative projection of transition temperature shift.

FPL has completed its calculation of transition temperature shift ( $\Delta RT_{NDT}$ ) as a function of neutron fluence ( $E > 1 \text{ MeV}$ ) for the St. Lucie Unit No. 2 reactor vessel. The results of these calculations are shown on Attachment 1.

Based on a neutron fluence of  $4.79E19 \text{ n/cm}^2$  (projected to April 2, 2023 end-of-life (EOL)) plus 30% for additional measurement uncertainty and conservatism, the EOL  $\Delta RT_{NDT}$  is less than  $140^\circ\text{F}$ , as indicated on Attachment 1. Accordingly, FPL concludes that the "four surveillance capsule removal schedule" recommended by ASTM Standard E 185-82 is applicable to the St. Lucie Unit 2 reactor vessel material surveillance program. The surveillance capsule withdrawal schedule specified in Technical Specification Table 4.4-5 is consistent with this recommendation and, therefore, satisfactory. Thus, FPL does not propose to modify this Technical Specification Table.

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Following resolution of any NRC concerns related to the development of the new Neutron Fluence vs Transition Temperature Shift ( $\Delta RT_{NDT}$ ) curve, FPL will amend the St. Lucie Unit 2 Technical Specification Bases Figure B3/4 4-1 and update Section 5.3 of the St. Lucie Unit 2 Final Safety Analysis Report by incorporating the newly developed curve.

If additional information is required on this topic, please contact us.

Very truly yours,

*H. M. Padavano*  
for C. O. Woody  
Group Vice President  
Nuclear Energy

COW/EJW/gp

Attachment

cc: Dr. J. Nelson Grace, Regional Administrator, Region II, USNRC  
Senior Resident Inspector, USNRC, St. Lucie Plant



The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

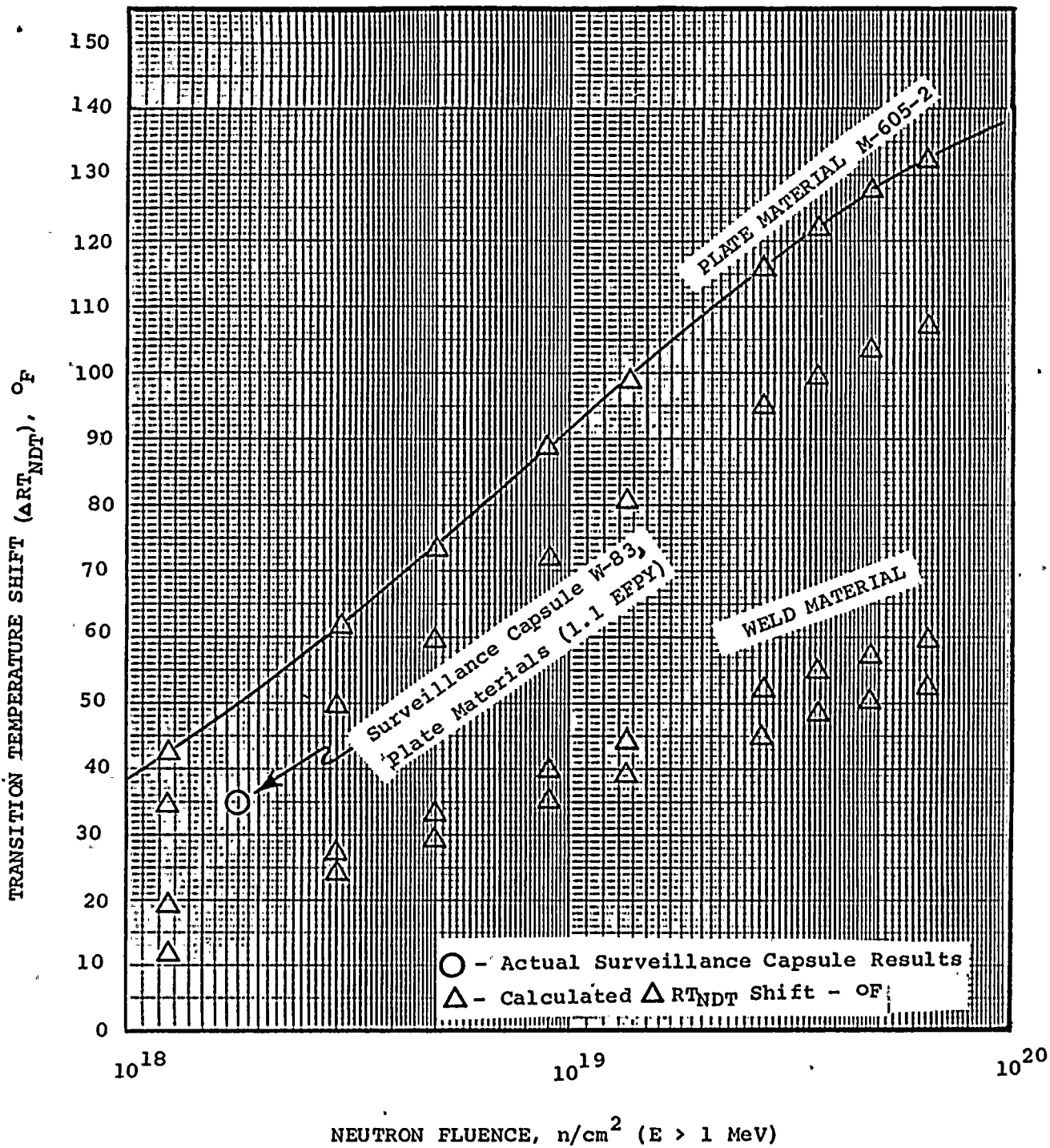
In addition, it is noted that the records should be kept up-to-date and organized in a logical manner. This will facilitate the identification of trends and anomalies over time. The document also mentions that the records should be stored in a secure location to prevent loss or damage.

The second part of the document focuses on the process of reconciling the records with the actual financial statements. It describes the steps involved in comparing the recorded amounts with the bank statements and other external sources.

This process is crucial for identifying any discrepancies and ensuring that the financial statements are accurate. The document provides a detailed explanation of how to investigate and resolve any differences that may arise. It also highlights the importance of regular reconciliation to prevent errors from accumulating.

Finally, the document concludes by stating that maintaining accurate records and performing regular reconciliations are essential for the overall health and success of any business. It encourages the reader to adopt these practices as a standard part of their financial management routine.

REACTOR VESSEL  
BELTLINE MATERIALS



Reference Temperature ( $RT_{NDT}$ ) Increases as a function of fast  
( $E > 1$  MeV) neutron fluence ( $550^\circ F$  irradiation)



12-1-72