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 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388  
 AUTH. NAME AUTHDR AFFILIATION  
 KEISER, H. W. Pennsylvania Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 ADENSAM, E. BWR Project Directorate 3

SUBJECT: Forwards application for Proposed Amend 35 to License  
 NPF-22, changing Tech Specs to support mods to improve  
 containment isolation function & testability of feedwater  
 sys. Fee paid.

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# Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Harold W. Keiser  
Vice President-Nuclear Operations  
215/770-7502

APR 04 1986

Director of Nuclear Reactor Regulation  
Attention: Ms. E. Adensam, Project Director  
BWR Project Directorate No. 3  
Division of BWR Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
PROPOSED AMENDMENT 35 TO LICENSE NO. NPF-22  
PLA-2621 FILES A17-2, R41-2

Docket No. 50-388

Dear Ms. Adensam:

The purpose of this letter is to propose changes to the Susquehanna SES Unit 2 Technical Specifications. The proposed changes support modifications which improve the containment isolation function and the testability of the Feedwater system.

Attached to this letter are the proposed changes (which are described below) in marked-up form, and a single line diagram to enhance the discussion in this letter.

A. Table 3.6.3-1, "Primary Containment Isolation Valves"

The proposed change to this table replaces the two valves listed as the RWCU Return manual isolation valves with two new valves. The valves being replaced (HV-244F042 and HV-244F104) are not being removed from the plant, but they will no longer serve as containment isolation valves. These valves are a significant contributor to leakage during local penetration testing due to their other function, throttling in support of RWCU operation. The new valves (HV-24182 A&B) will take over the containment isolation function, and the other valves will continue to be used for throttling purposes.

B. Table 3.8.4.2-1, "Motor-Operated Valves Thermal Overload Protection"

The two new containment isolation valves, HV-24182 A&B, are being added to this table, because they are equipped with thermal overload bypass circuitry.

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NO SIGNIFICANT HAZARDS CONSIDERATIONS

- I. The proposed changes do not involve a significant increase in the probability or consequences of an accident previously evaluated.

FSAR Section 5.4.8.2 states that the RWCU System is classified as a primary Power Generation System and is not an Engineered Safety Feature. The FSAR describes the function of the HV-2F042 and HV-2F104 system return valves as long term leakage control. Instantaneous reverse flow isolation is provided by the G33-2F039A&B check valves, further downstream in the RWCU piping. This modification will reassign the long term leakage control function from valves HV-2F042 and HV-2F104 to the new valves HV-24182A&B. The location of the new valves will be downstream from the G33-2F039A&B check valves and will not alter their present function of instantaneous reverse flow isolation. The motor-operated HV-24182A&B isolation valves will function as positive-closing containment isolation valves for the RWCU branch connections to Feedwater penetrations X-9A and X-9B and will not increase the probability of an accident or malfunction of equipment related to safety.

- II. The proposed changes do not create the possibility of a new or different kind of accident from any accident previously evaluated.

FSAR Section 5.4.8.2 describes the safety-related portions of the RWCU System. This modification will improve RWCU capability to serve these safety-related functions by reducing containment valve leakage via new containment isolation valves HV-24182A&B. FSAR Section 6.2.4.3.2.1 identifies the safety-related function of the Feedwater containment isolation valves. This modification will not alter the present function of the Feedwater valves nor create a possibility for an accident or malfunction of a different type than already evaluated in the FSAR.

- III. The proposed changes do not involve a significant reduction in a margin of safety.

As noted above, the containment isolation for the affected feedwater penetrations will be improved by the addition of the new valves, because they will not be used for throttling purposes. Therefore the margin of safety defined by the containment isolation function is improved.

IMPLEMENTATION

The proposed changes support a modification currently scheduled for the Unit 2 first refueling and inspection outage. Therefore, we request that NRC approve this change prior to the start of that outage with the condition that it becomes effective upon startup following the outage.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies on the selective medium. The results are the mean of three independent experiments. Error bars represent standard deviation.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in the YEA medium for 24 h and then adjusted to the optical density of 0.5. The *Agrobacterium* strains were then mixed with the *Agrobacterium* suspension of different concentrations (10<sup>6</sup>, 10<sup>7</sup>, 10<sup>8</sup>, 10<sup>9</sup>, 10<sup>10</sup>, 10<sup>11</sup>, 10<sup>12</sup>, 10<sup>13</sup>, 10<sup>14</sup>, 10<sup>15</sup>, 10<sup>16</sup>, 10<sup>17</sup>, 10<sup>18</sup>, 10<sup>19</sup>, 10<sup>20</sup>, 10<sup>21</sup>, 10<sup>22</sup>, 10<sup>23</sup>, 10<sup>24</sup>, 10<sup>25</sup>, 10<sup>26</sup>, 10<sup>27</sup>, 10<sup>28</sup>, 10<sup>29</sup>, 10<sup>30</sup>, 10<sup>31</sup>, 10<sup>32</sup>, 10<sup>33</sup>, 10<sup>34</sup>, 10<sup>35</sup>, 10<sup>36</sup>, 10<sup>37</sup>, 10<sup>38</sup>, 10<sup>39</sup>, 10<sup>40</sup>, 10<sup>41</sup>, 10<sup>42</sup>, 10<sup>43</sup>, 10<sup>44</sup>, 10<sup>45</sup>, 10<sup>46</sup>, 10<sup>47</sup>, 10<sup>48</sup>, 10<sup>49</sup>, 10<sup>50</sup>, 10<sup>51</sup>, 10<sup>52</sup>, 10<sup>53</sup>, 10<sup>54</sup>, 10<sup>55</sup>, 10<sup>56</sup>, 10<sup>57</sup>, 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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in the context of public administration and financial management.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for robust data collection systems that can handle large volumes of information efficiently and accurately. The document also discusses the importance of data validation and quality control measures to ensure the reliability of the information collected.

3. The third part of the document focuses on the analysis and interpretation of the collected data. It describes the various statistical and analytical techniques used to identify trends, patterns, and correlations within the data. The document also discusses the importance of contextualizing the data within the relevant framework to draw meaningful conclusions.

4. The fourth part of the document discusses the application of the findings to policy-making and decision-making. It emphasizes that the insights gained from the data analysis should be used to inform the development of effective policies and programs that address the identified issues and challenges. The document also discusses the importance of monitoring and evaluating the impact of these policies and programs over time.

5. The fifth part of the document discusses the challenges and limitations of the data collection and analysis process. It identifies various factors that can affect the quality and reliability of the data, such as incomplete reporting, data entry errors, and biases. The document also discusses the importance of addressing these challenges through the implementation of robust data management practices and the use of appropriate statistical techniques.

6. The sixth part of the document discusses the future directions of the research and the potential for further improvements in the data collection and analysis process. It highlights the need for continued research and innovation in data management and analysis techniques to enhance the effectiveness and efficiency of the process. The document also discusses the importance of fostering a culture of data-driven decision-making within the organization.

7. The seventh part of the document discusses the conclusion and the key findings of the study. It summarizes the main points discussed throughout the document and highlights the key insights and recommendations. The document also discusses the importance of implementing the recommendations to achieve the desired outcomes and improve the overall performance of the organization.

8. The eighth part of the document discusses the appendix and the supporting materials. It includes a list of references, a list of figures and tables, and a list of abbreviations. The appendix also includes a list of the data sources used in the study and a list of the data collection instruments used.

9. The ninth part of the document discusses the index and the location of the various sections and subsections. It provides a comprehensive list of the topics covered in the document and the page numbers where they can be found. This section is designed to facilitate the navigation and search of the document.

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13. The thirteenth part of the document discusses the list of references. It provides a list of the sources used in the study, including books, articles, and other documents. This section is designed to provide the reader with a list of the sources used in the study and to facilitate the search for additional information.

14. The fourteenth part of the document discusses the list of data sources. It provides a list of the sources used to collect the data for the study, including surveys, interviews, and other data collection methods. This section is designed to provide the reader with a list of the data sources used in the study and to facilitate the search for additional information.

15. The fifteenth part of the document discusses the list of data collection instruments. It provides a list of the instruments used to collect the data for the study, including questionnaires, interviews, and other data collection methods. This section is designed to provide the reader with a list of the data collection instruments used in the study and to facilitate the search for additional information.

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress regularly to ensure that the project is on track.

5. Finally, the fifth step is to evaluate the results of the project. This involves assessing the outcomes against the objectives and goals and identifying any areas for improvement.

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SSES PLA-2621  
Files A17-2, R41-2  
Ms. E. Adensam

Any questions on this proposal should be directed to Mr. R. Sgarro at  
(215) 770-7855. Pursuant to 10CFR170.22, the appropriate fee is enclosed.

Very truly yours,



H. W. Keiser  
Vice President-Nuclear Operations

cc: M. J. Campagnone USNRC  
R. H. Jacobs USNRC

T. M. Gerusky, Director  
Bureau of Radiation Protection  
PA Dept. of Environmental Resources  
P.O. Box 2063  
Harrisburg, PA 17120

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 3, 1862. It is a very important document, as it contains the President's annual message to Congress. The letter is written in a very formal and dignified style, and it is one of the most important documents in the history of the United States.

2. The second part of the document is a letter from the Secretary of the Treasury to the President, dated January 3, 1862. It is a very important document, as it contains the Secretary's report to the President on the state of the Treasury. The letter is written in a very formal and dignified style, and it is one of the most important documents in the history of the United States.

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