

ATTACHMENT 5

Oyster Creek Generating Station

Docket No. 50-219

License No. DPR-16

License Amendment Request

“Increase Safety Valve As-Found Setpoint Tolerance from $\pm 1\%$ to $\pm 3\%$ ”

**GE-NE-0000-0046-3343-R0, Oyster Creek
SSV Set-point Tolerance Change Effects on Anticipated Operational Occurrences,**

NON-PROPRIETARY VERSION



GE Energy - Nuclear

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Revision 1
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Non-proprietary Version

**Oyster Creek
SSV Set-point Tolerance Change Effects on Anticipated
Operational Occurrences**



Non-Proprietary Notice

IMPORTANT NOTICE

This is a non-proprietary version of GE-NE-0000-0046-3343-P, Rev 1, which has the proprietary information removed. Portions of the document that have been removed are indicated by an open and closed bracket as shown here [[]].

IMPORTANT NOTICE REGARDING

CONTENTS OF THIS REPORT

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Revision History

Revision 1:

1. Changes to create proprietary version of the document to satisfy 10 CFR2.390. Changes include the addition of the affidavit, and proprietary markings; revised headers and proprietary notices, and the deletion of references. No technical changes were made.



Summary

This report documents the results of a sensitivity study performed for the Oyster Creek Generating Station (Oyster Creek) to determine the effect on the [[]] of a -3% tolerance on the opening set point of the Spring Safety Valves (SSVs). The [[]] analysis case for Oyster Creek Cycle 20 was run with the SSVs set to open when pressure was [[]] below the [[]] opening set point. [[]] the change in [[]] results were determined to be [[]] relative to the original Cycle 20 case. Therefore, changing the SSV opening pressure set points by -3% will have no effect on the core operating thermal limits.

Note that this report identifies the effects on Anticipated Operational Occurrences (AOO) based thermal limits of a change in the SSV opening pressure set point tolerance from -1% to -3%. The results discussed in this report are [[]]

Evaluation

Exelon is evaluating the potential to relax the Oyster Creek SSV opening pressure set point tolerance. Currently, Oyster Creek technical specifications require a SSV opening pressure set point tolerance of $\pm 1\%$. Exelon is evaluating a relaxation of this requirement to $\pm 3\%$ for Oyster Creek. The purpose of this report is to document the effect on the [[]] of a change in the negative side of the SSV opening pressure set point tolerance to -3%. Note that the Oyster Creek Cycle 20 reload analysis assumed a SSV opening set point of [[]] in the ASME overpressure analysis.

This evaluation addressed the effect of this tolerance relaxation on the [[]]. Specifically, the evaluation addressed the effect of the lower limit (-3%) of the tolerance band. This evaluation was performed by first re-running the original Cycle 20 limiting core thermal limits case, [[]]

[[]] Note, the reload licensing [[]]
[[]] analyses [[]]. Subsequently, [[]]
[[]] was run for the same conditions with [[]]
[[]] the -3% tolerance point.



Results for these [[]] show that the point of [[]] occurs about [[]]. The [[]] also occurs [[]] which is why there is no change to the thermal-mechanical results. Given that the [[]] cases, [[]]

]] The results of the analysis confirm this expectation. These [[]] cases adequately represent the thermal limit transients for the purpose of evaluating the impact of the -3% tolerance. The analysis results support [[]]

]] the SSV opening pressure tolerance band to -3% for AOO application. [[]]

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