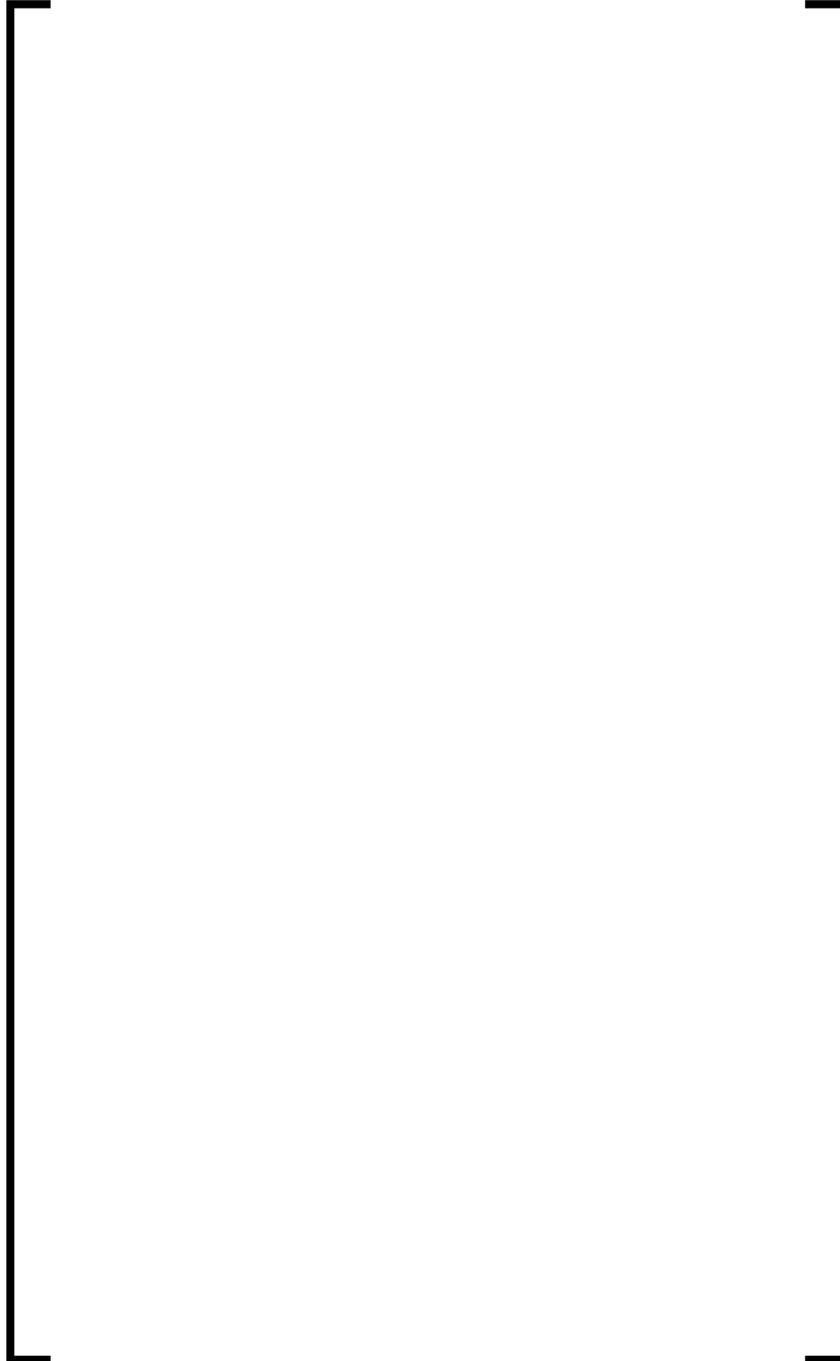


ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

- Maximum fatigue usage in the existing nozzle material- Table 6-11

The PUFs at these locations are calculated for a Hot Leg Surge Nozzle with the FSWOL operating for 80 years.

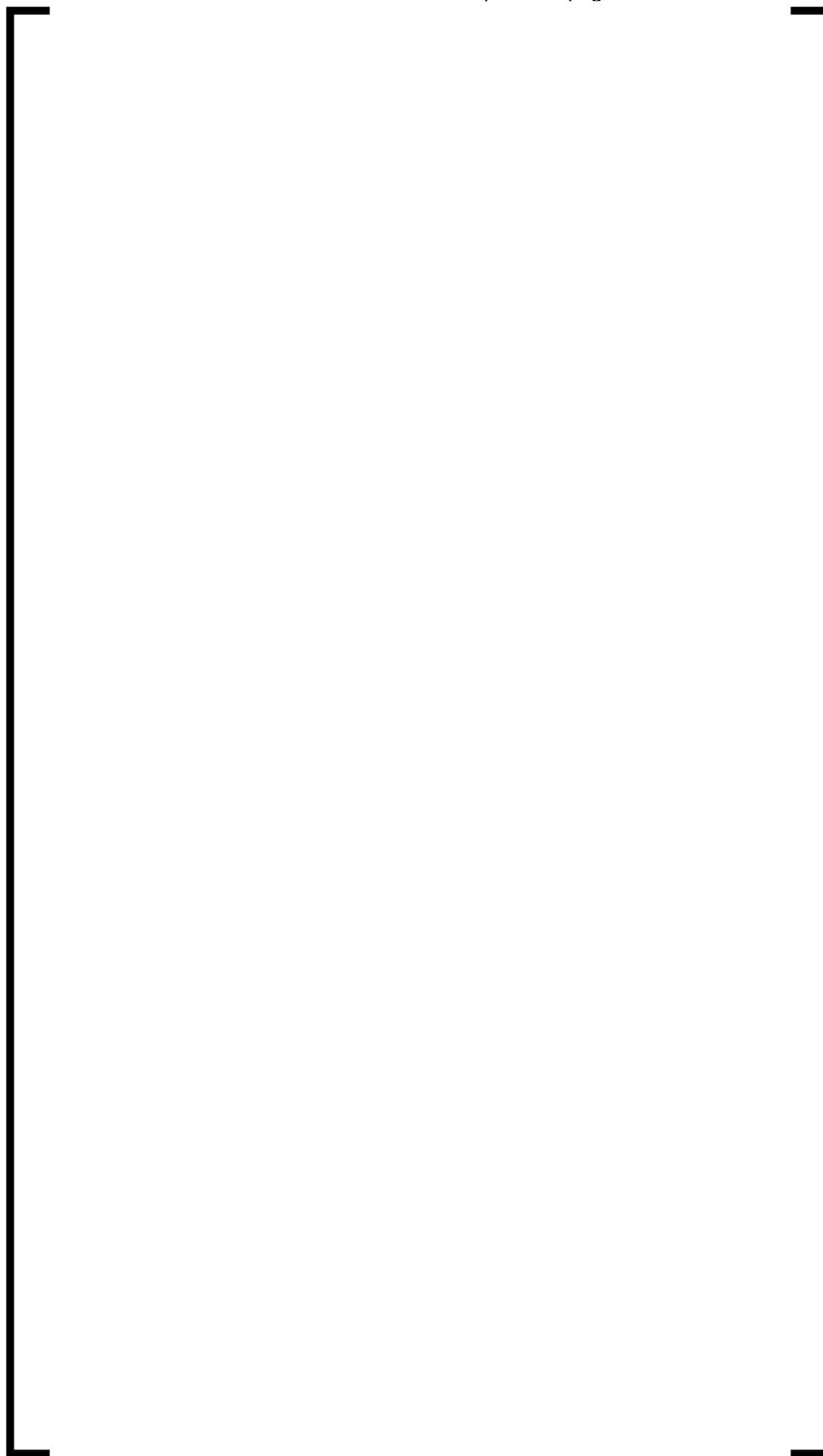
Table 6-7: Summary of Cumulative Fatigue Usages - Minimum FSWOL Model



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

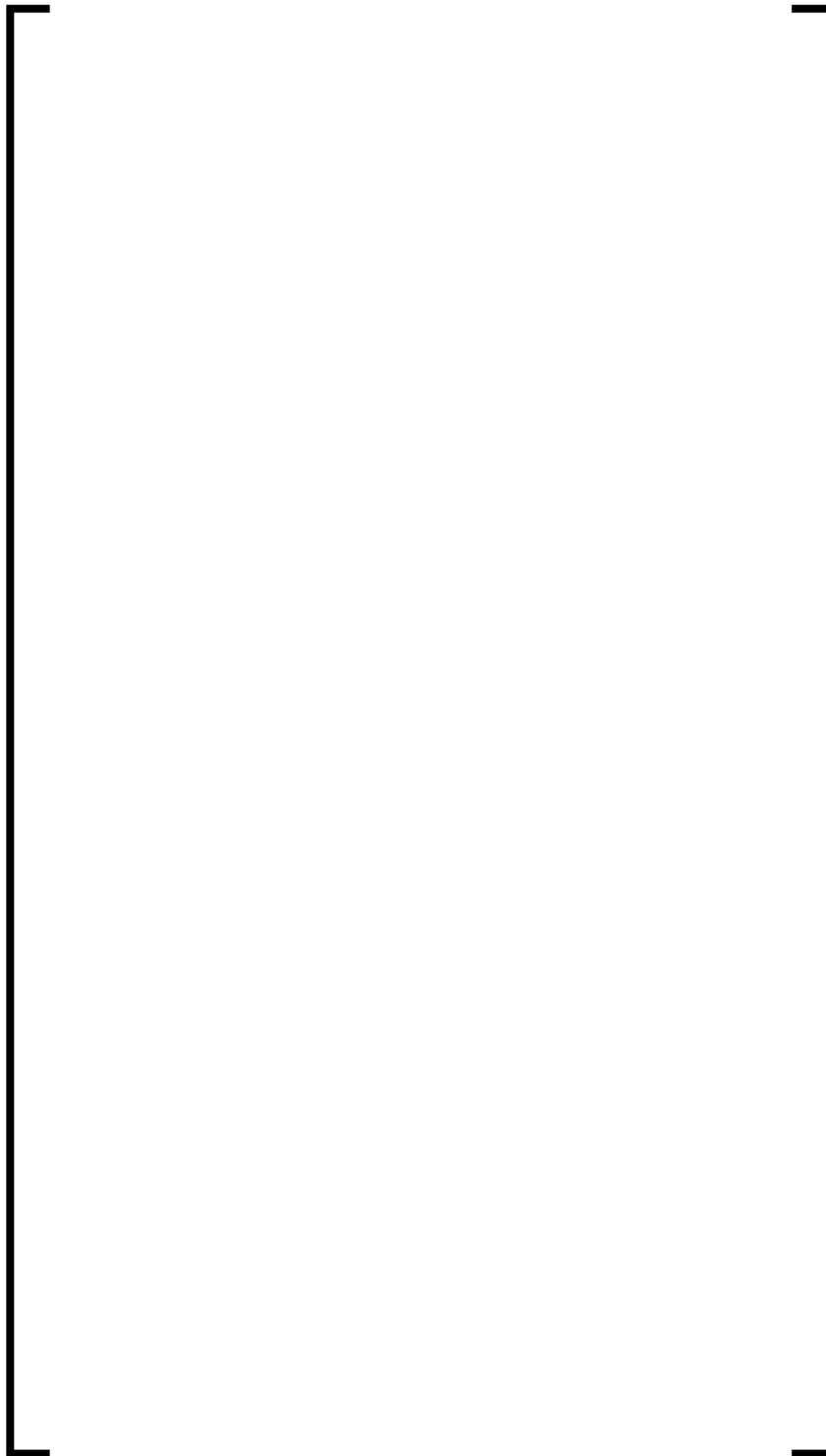
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

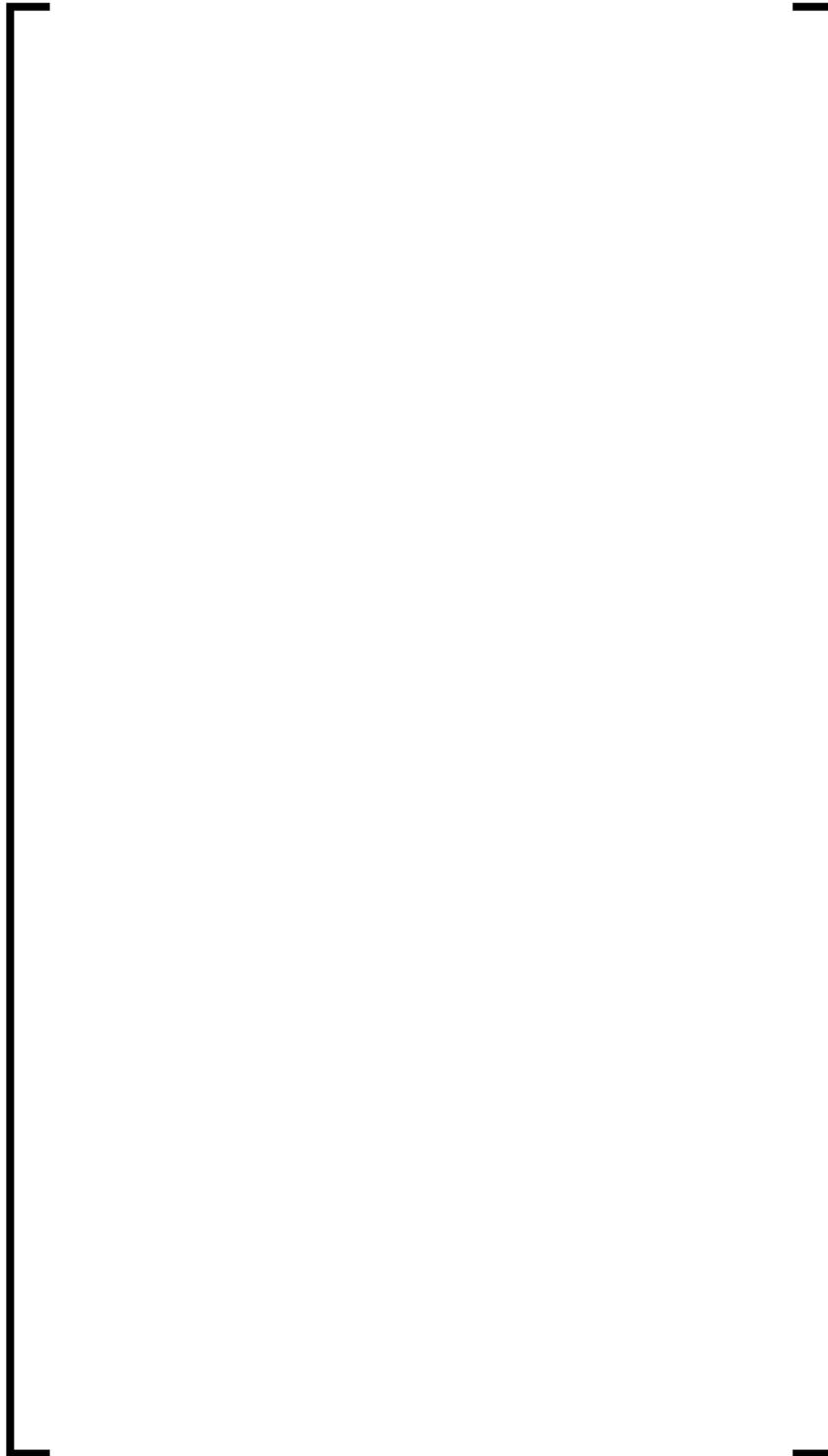
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

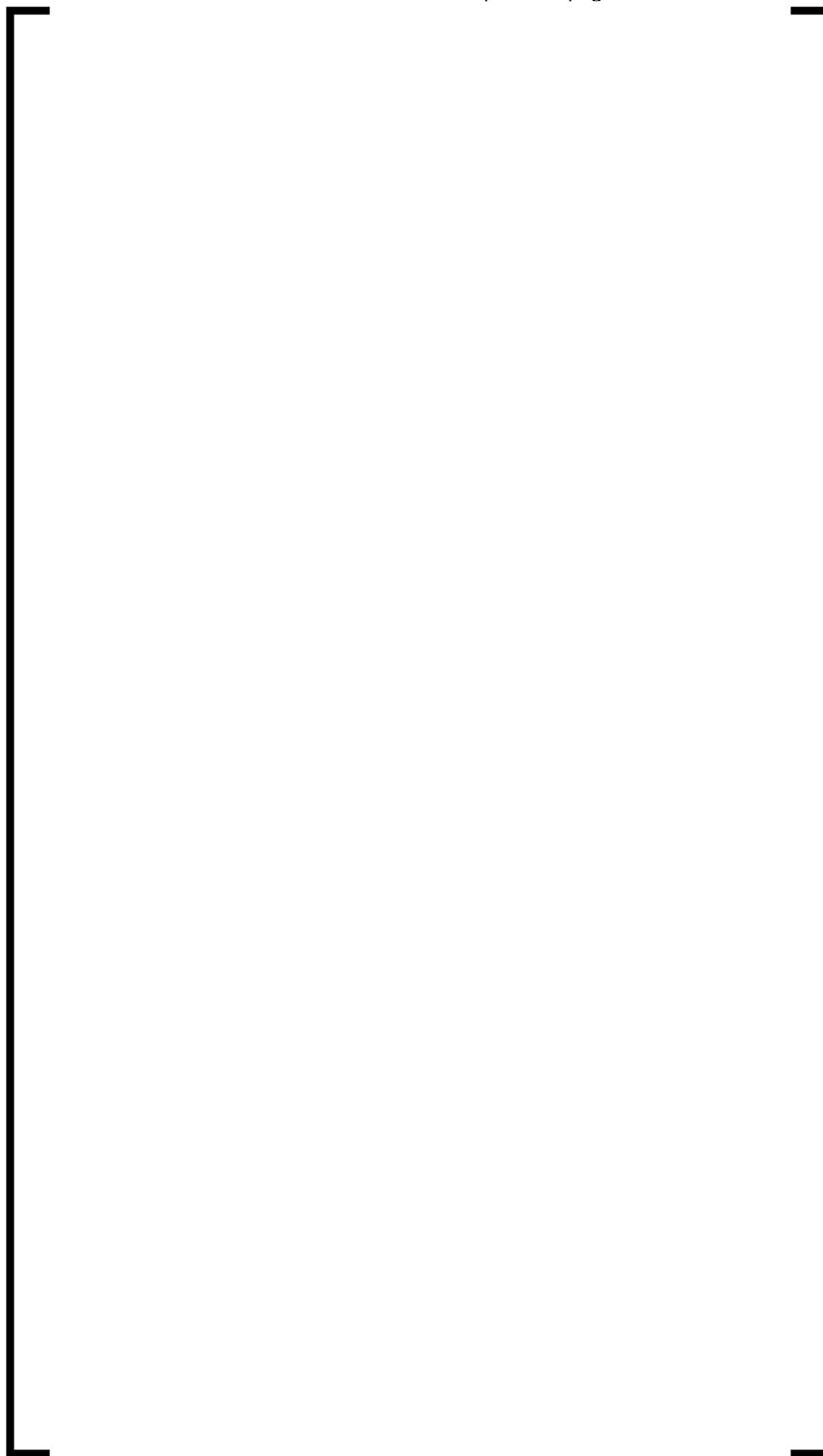
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

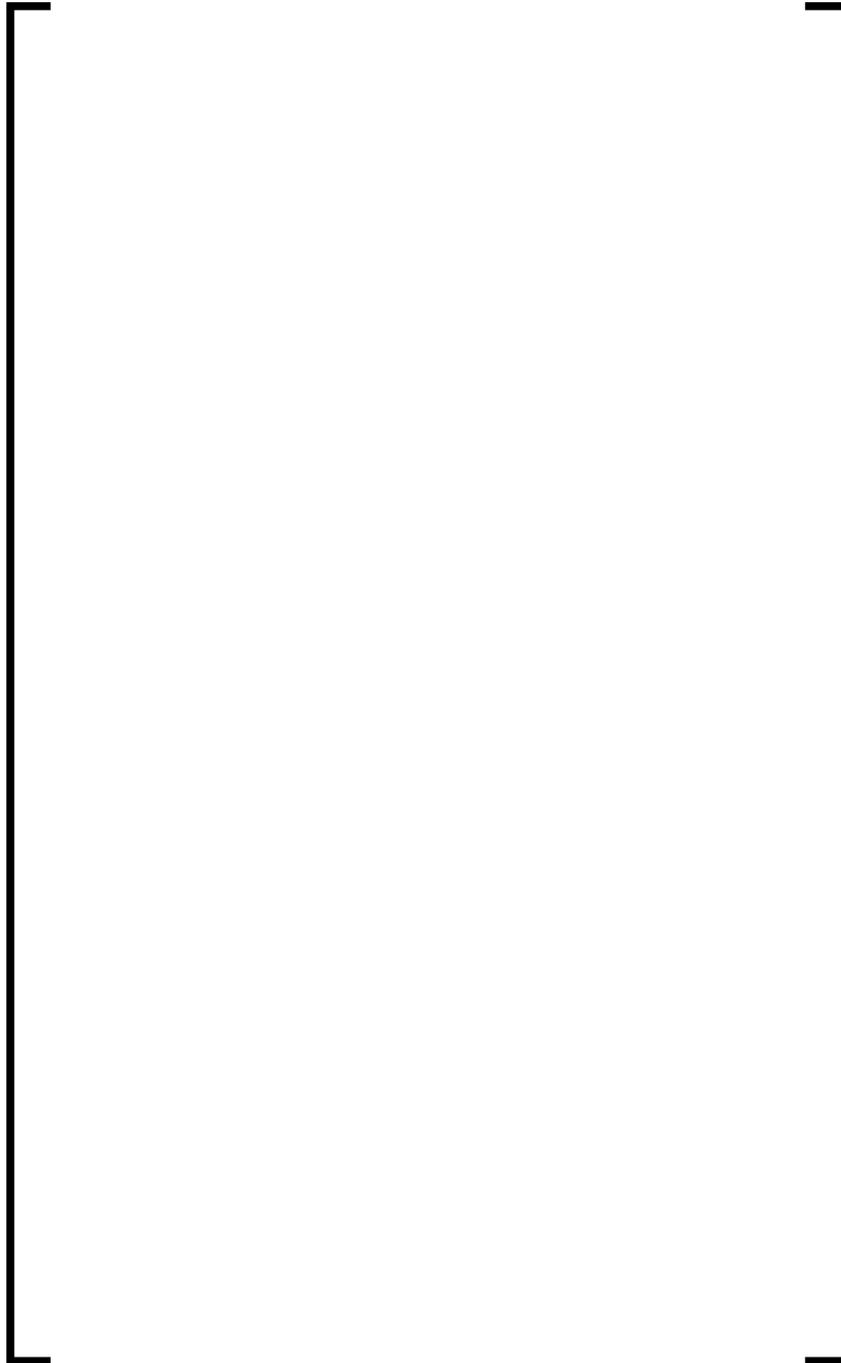
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6–8: Inside Location Fatigue Evaluation Parameters - Minimum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-8 – continued from previous page

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-9: Outside Location Fatigue Evaluation Parameters - Minimum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-9 – continued from previous page

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-10: Maximum Cumulative Usage in [] - Minimum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-10 – continued from previous page

Table 6-11: Maximum Cumulative Usage in [] - Minimum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-11 – continued from previous page

Table 6-12: Maximum Cumulative Usage in [] - Minimum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-12 – continued from previous page

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-12 – continued from previous page

Table 6-13: Maximum Cumulative Usage in [] - Minimum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-13 – continued from previous page



ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6–14: Maximum Cumulative Usage in [] - Minimum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-14 – continued from previous page



ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

A summary of the cumulative fatigue usage values calculated at all locations in the maximum FSWOL model is provided in Table 6–15. Detailed listings in subsequent tables include the maximum evaluated S_{alt} , corresponding time points, maximum in-range temperatures, and applicable K_e factors for the following locations:

- Maximum fatigue usage in the FSWOL [] material- Table 6–18
- Maximum fatigue usage in the existing [] material- Table 6–20
- Maximum fatigue usage in the cladding material- Table 6–22
- Maximum fatigue usage in the surge line pipe material- Table 6–21
- Maximum fatigue usage in the existing nozzle material- Table 6–19

The PUFs at these locations are calculated for a Hot Leg Surge Nozzle with the FSWOL operating for 80 years.

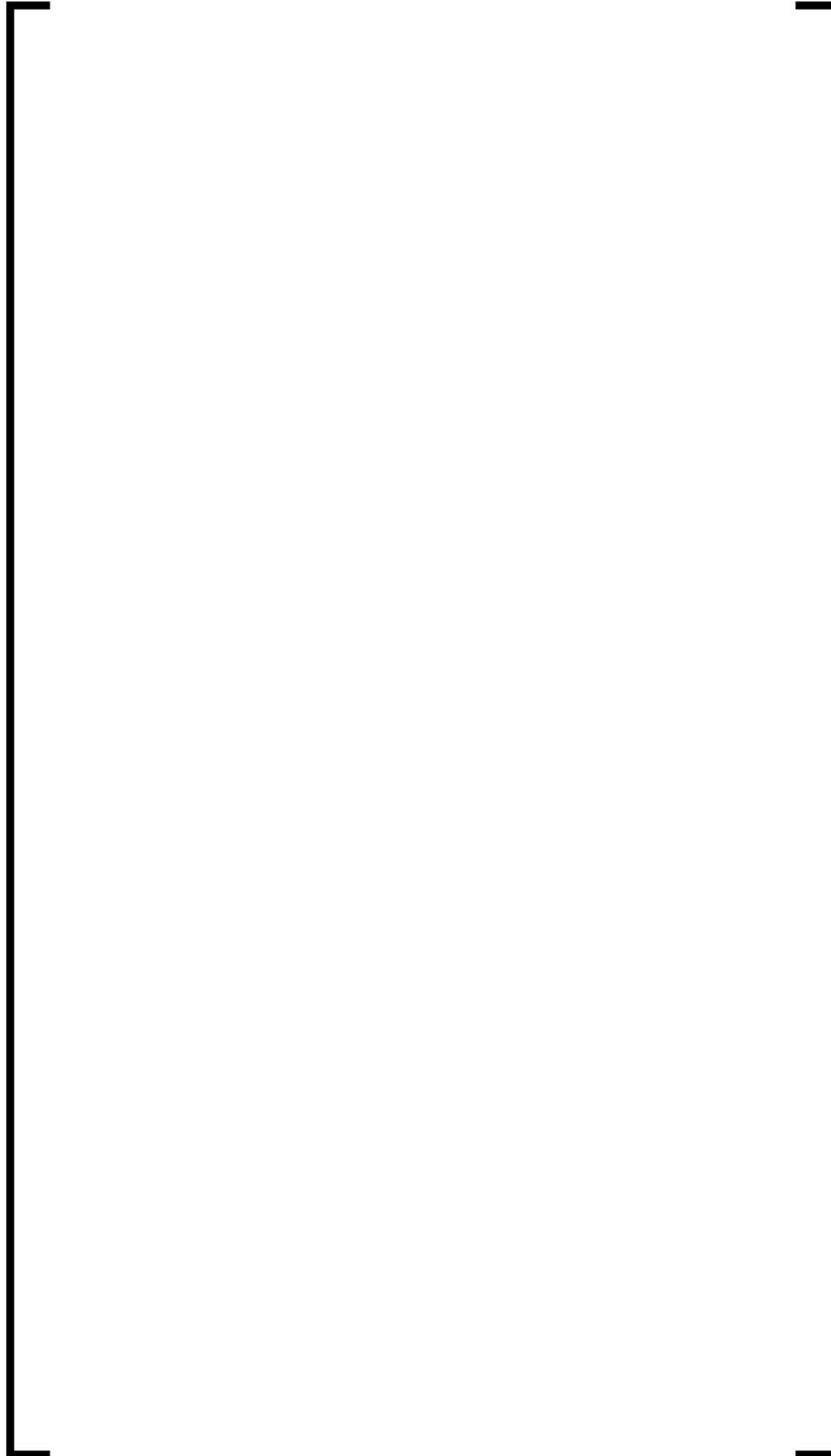
Table 6–15: Summary of Cumulative Fatigue Usages - Maximum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

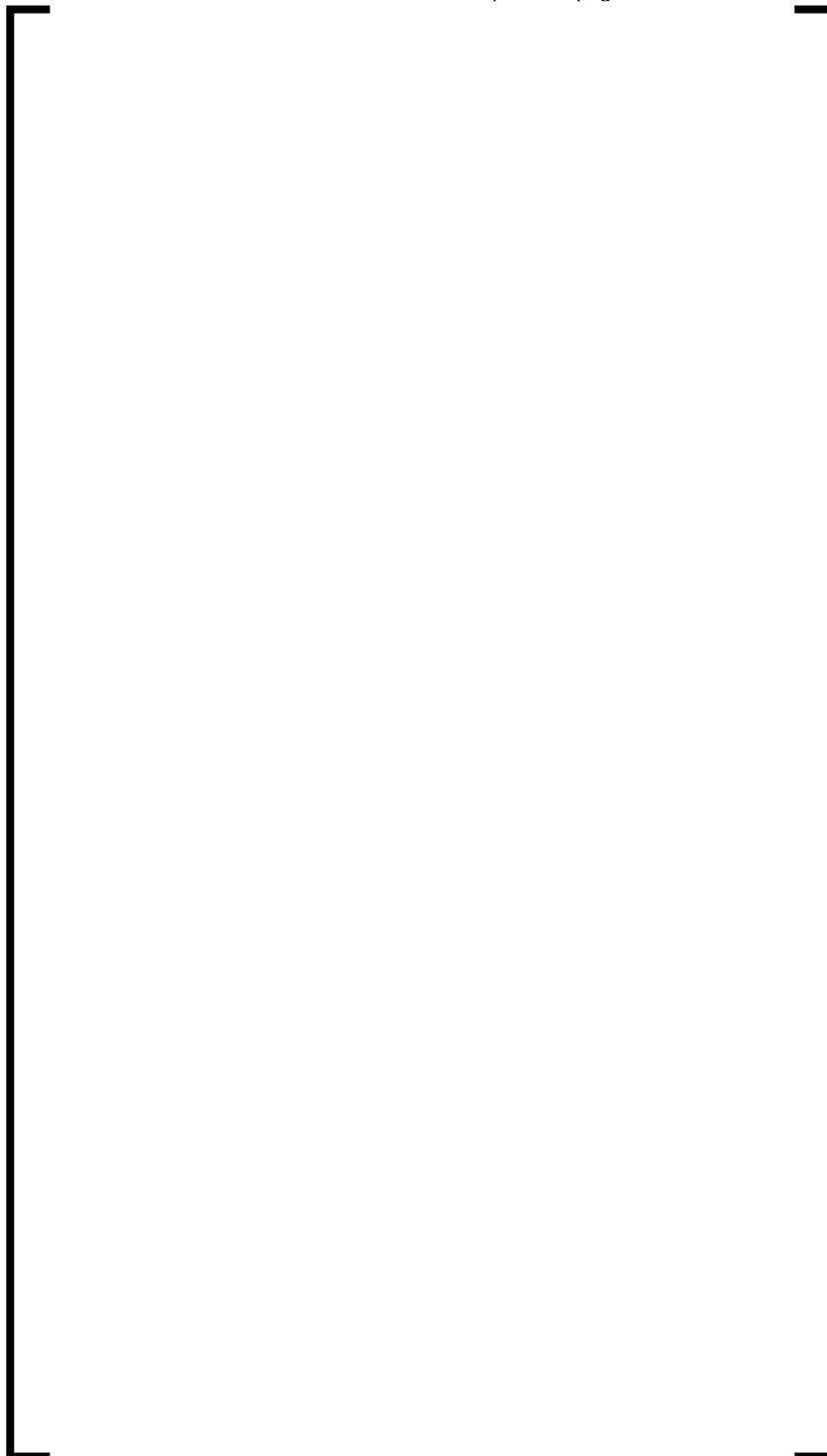
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

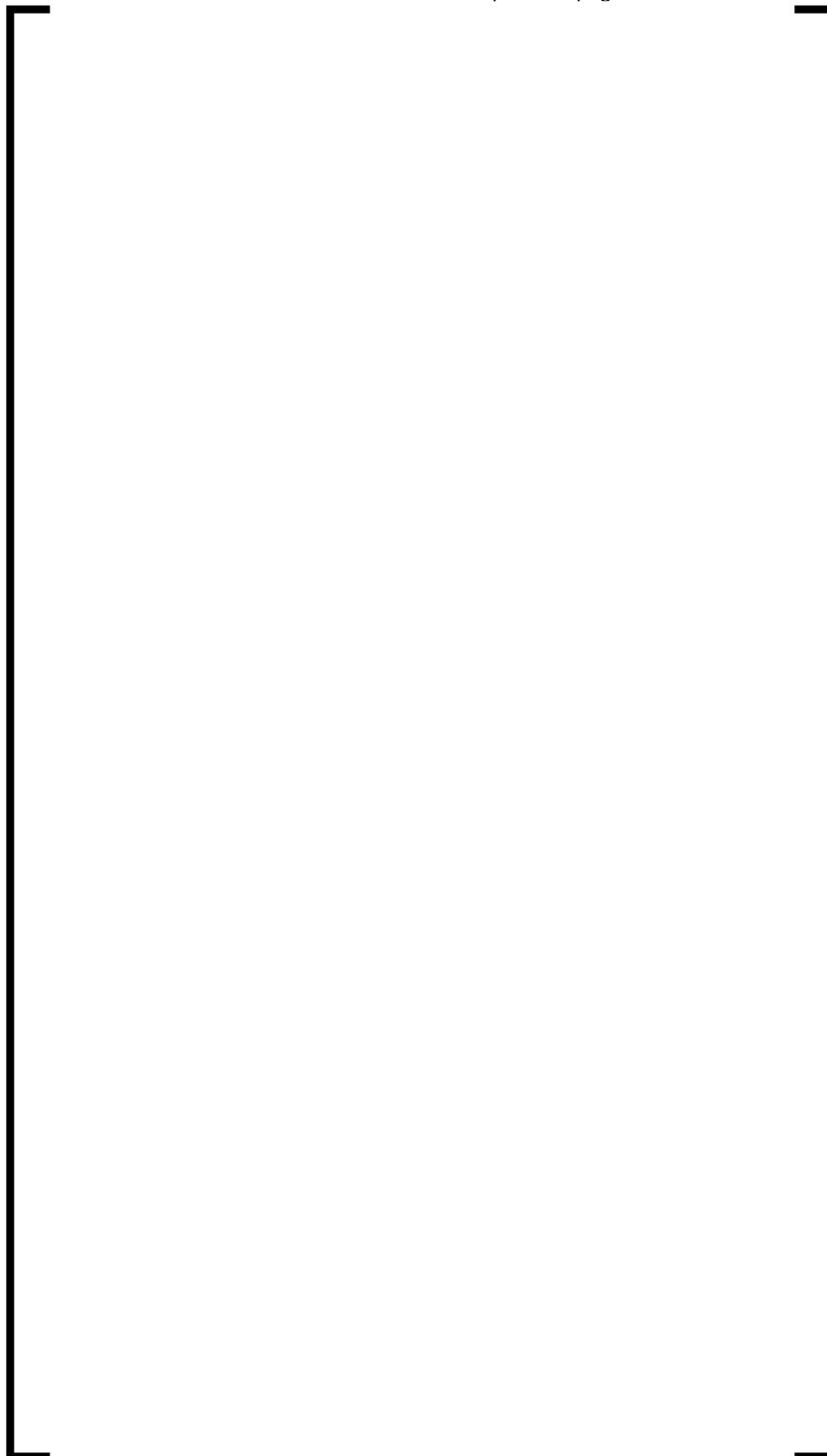
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

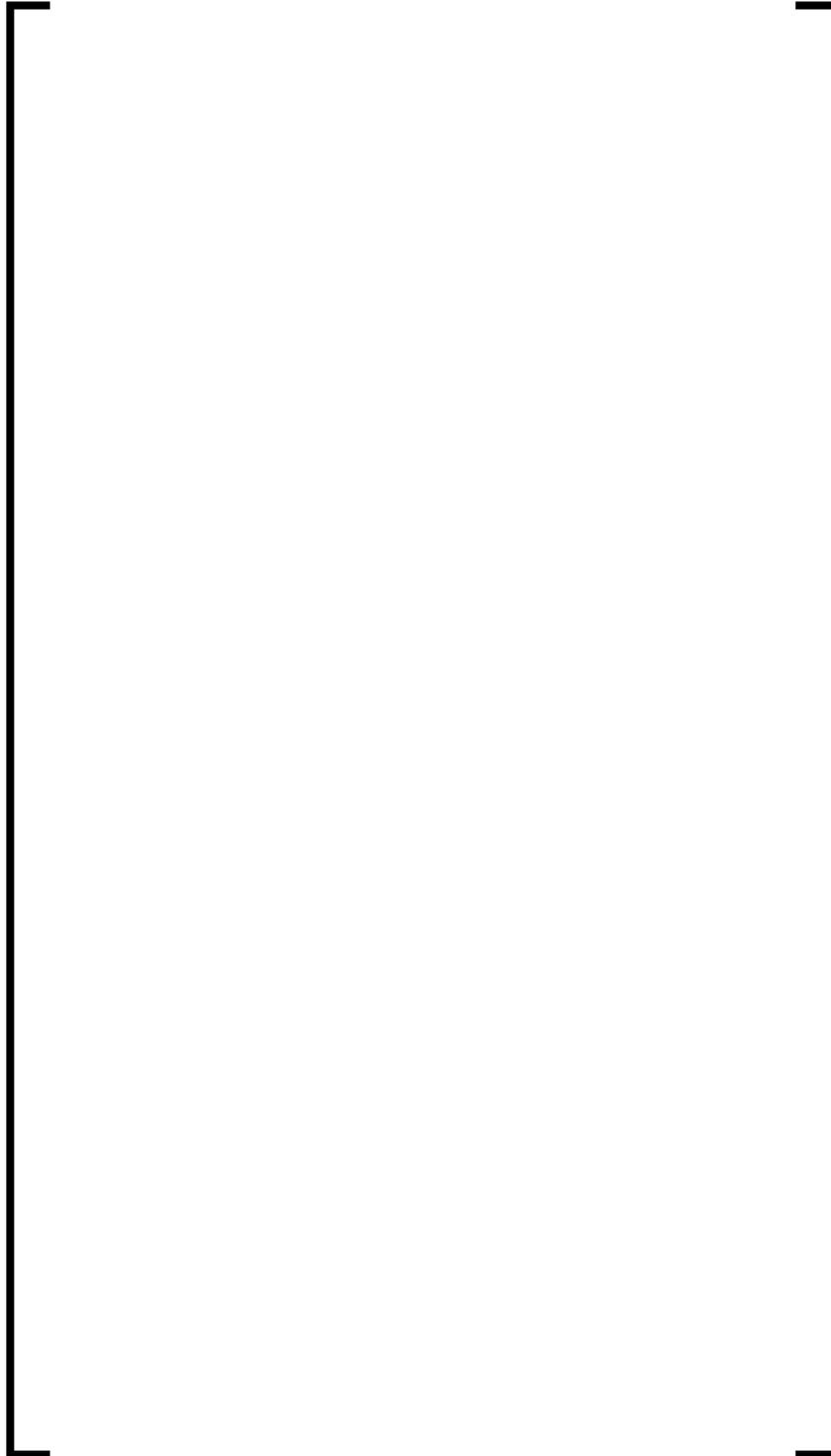
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

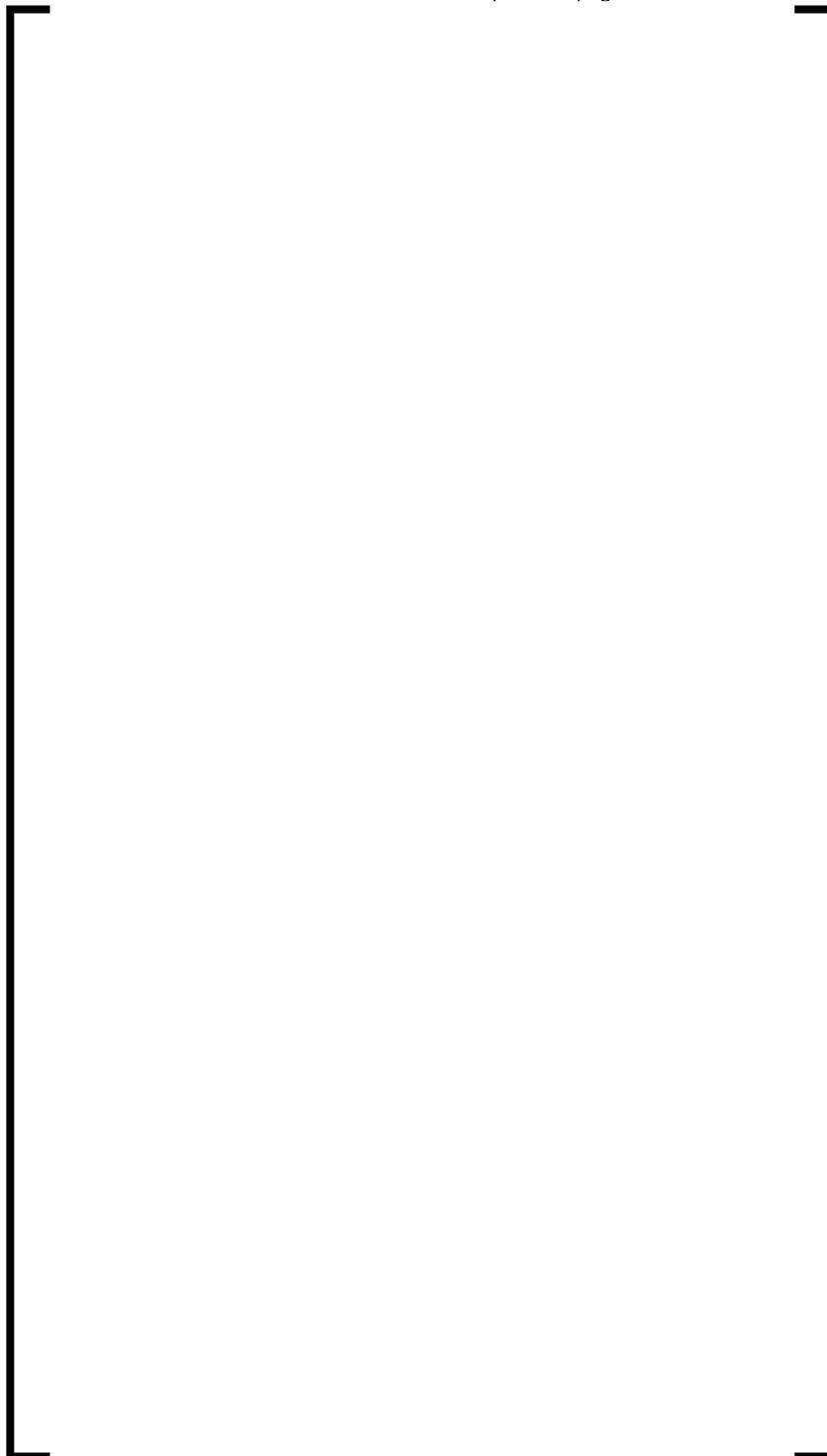
Table 6-15 – continued from previous page



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

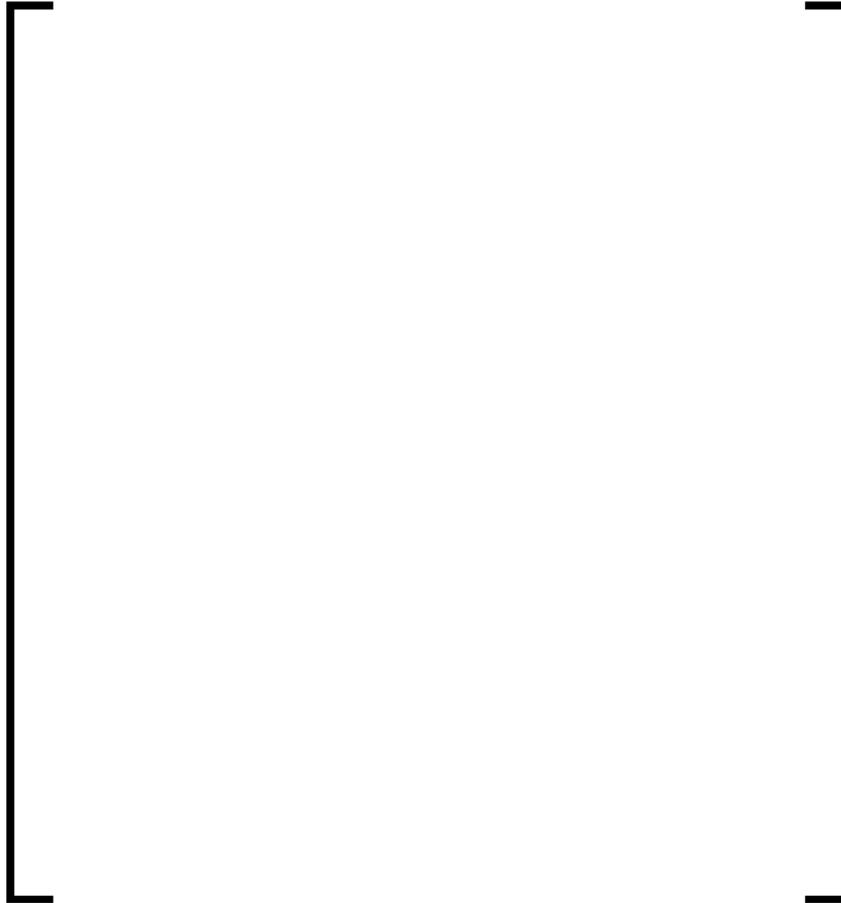
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

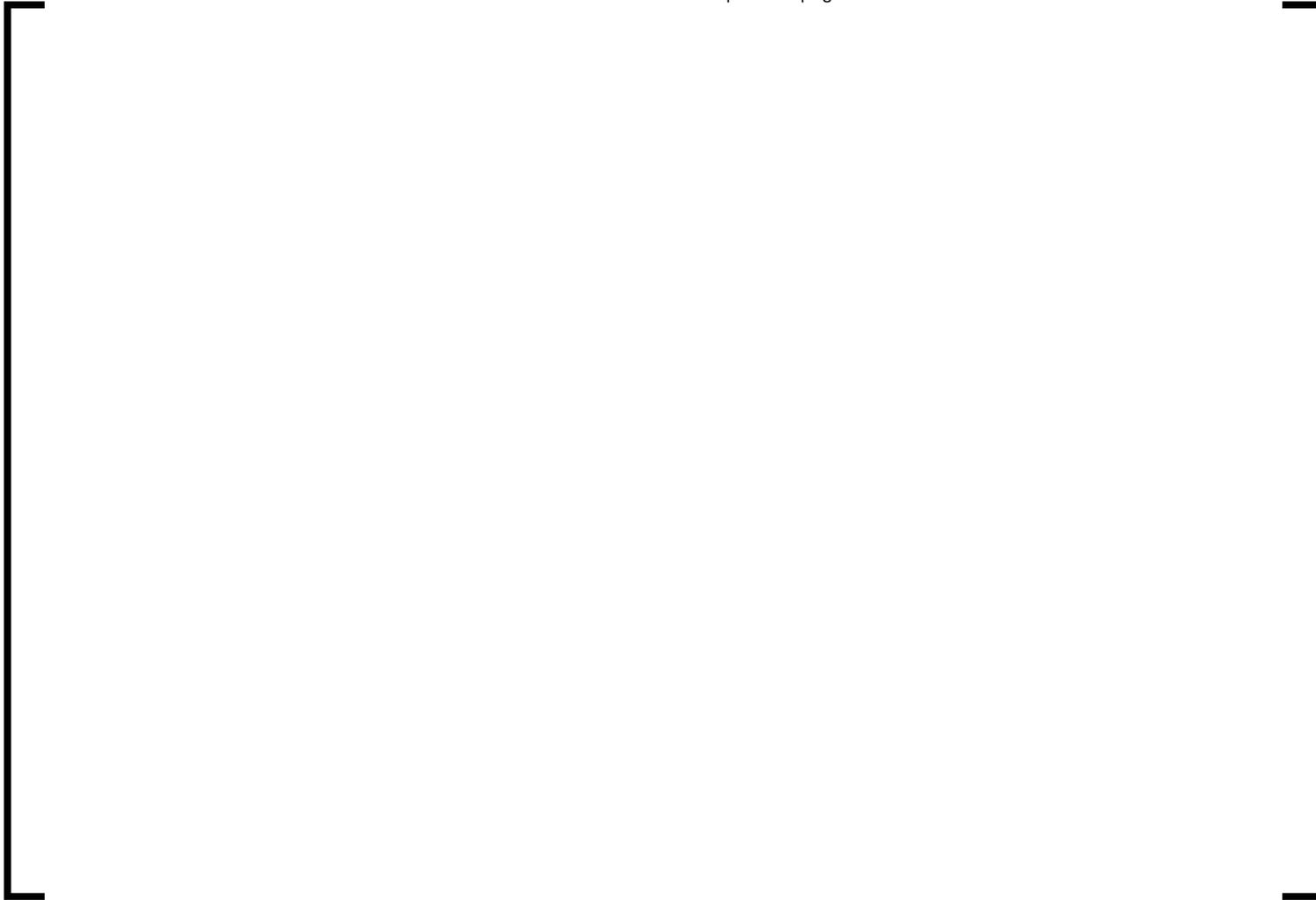
Table 6–16: Inside Location Fatigue Evaluation Parameters - Maximum FSWOL Model



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

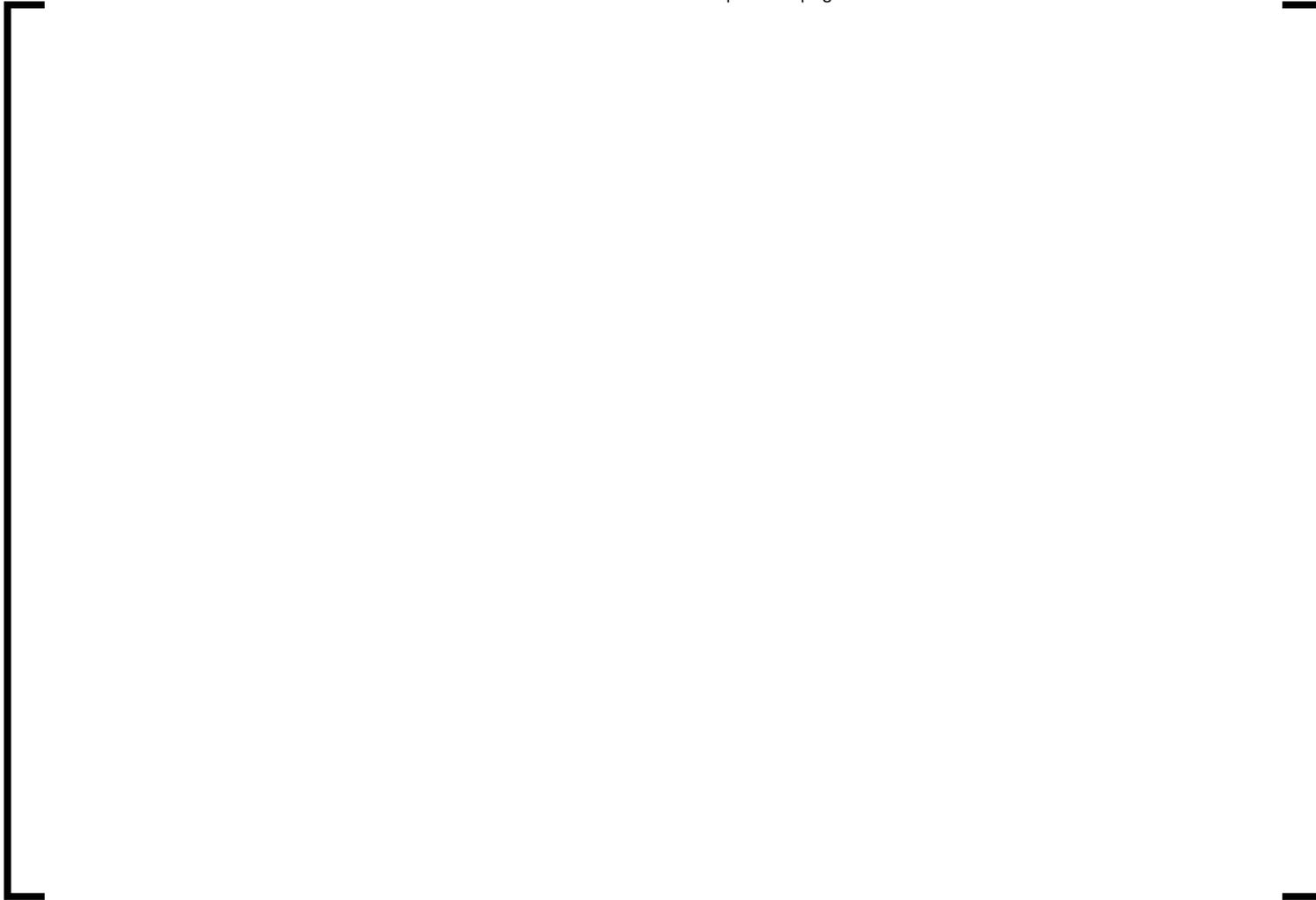
Table 6-16 – continued from previous page



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

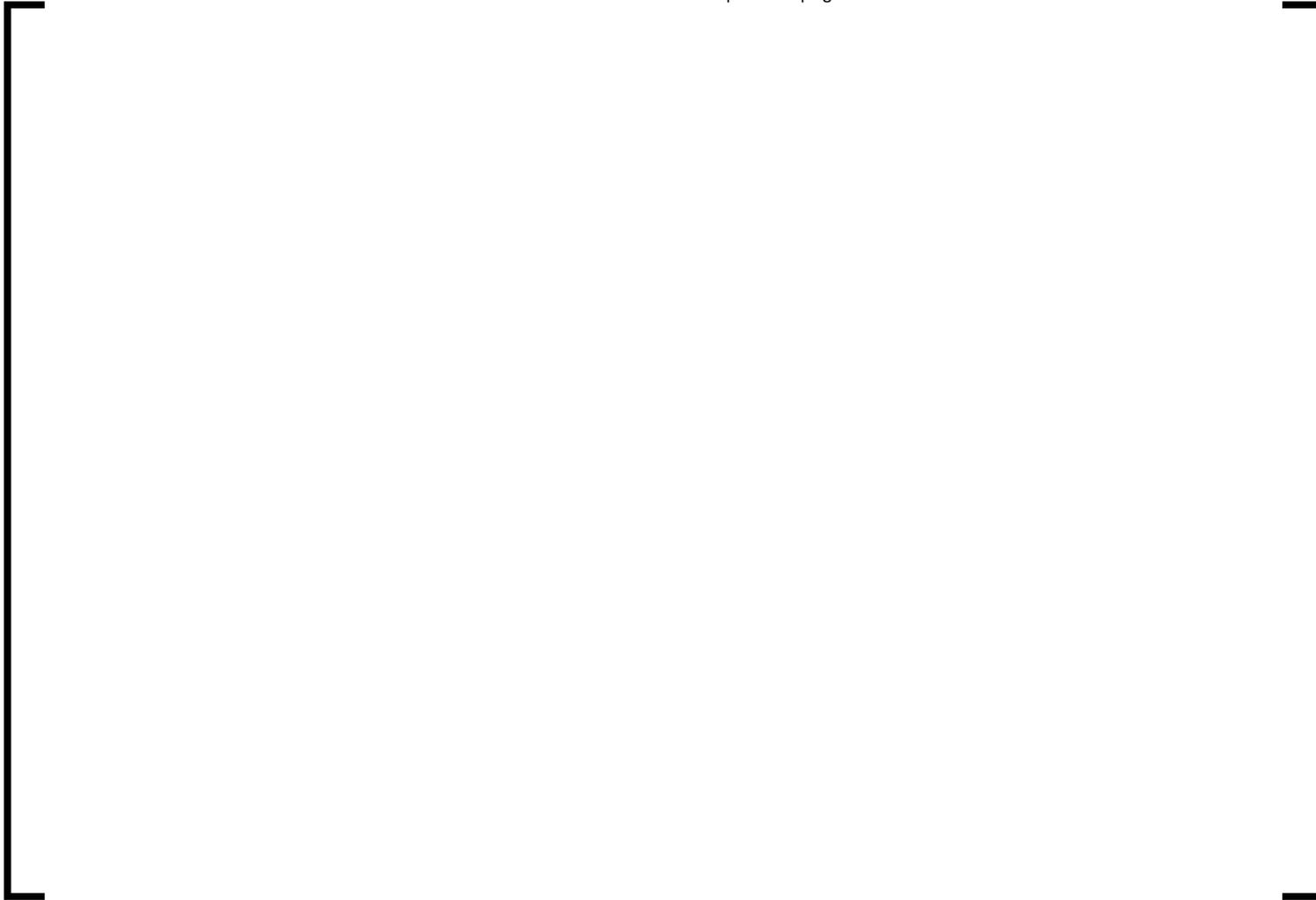
Table 6-16 – continued from previous page



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-16 – continued from previous page



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-16 – continued from previous page



Table 6-17: Outside Location Fatigue Evaluation Parameters - Maximum FSWOL Model



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-17 – continued from previous page



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-17 – continued from previous page



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-17 – continued from previous page



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-17 – continued from previous page



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-17 – continued from previous page



Table 6-18: Maximum Cumulative Usage in [] - Maximum FSWOL Model



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-18 – continued from previous page

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-18 – continued from previous page

Table 6-19: Maximum Cumulative Usage in [] - Maximum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-19 – continued from previous page

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-19 – continued from previous page

Table 6-20: Maximum Cumulative Usage in [] - Maximum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-20 – continued from previous page

Table 6-21: Maximum Cumulative Usage in [] - Maximum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-21 – continued from previous page

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-21 – continued from previous page

Table 6-22: Maximum Cumulative Usage in [] - Maximum FSWOL Model

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-22 – continued from previous page

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table 6-22 – continued from previous page



ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

6.4 Conclusion

The analysis herein has shown the repaired configuration for the Hot Leg Surge Nozzle with a minimum or maximum [] FSWOL configuration meets all applicable primary plus secondary stress criteria defined in XIII-3400, Reference [4]. The minimum margin locations for each material are listed below in Table 6–23 for the minimum [] FSWOL configuration. The minimum margin locations for each material are listed below in Table 6–24 for the maximum [] FSWOL configuration. All cumulative fatigue usage values in Table 6–23 and Table 6–24 are applicable for the proposed 80-year design life. The total cumulative fatigue usage for the existing material considers the partial usage prior to the [] FSWOL and the partial usage with the [] FSWOL.

Table 6–23: Hot Leg Surge Nozzle Minimum FSWOL Configuration ASME Qualification Summary

[]

Table 6–24: Hot Leg Surge Nozzle Maximum FSWOL Configuration ASME Qualification Summary

[]

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

7 References

References identified with (*) are maintained within Palisades Nuclear Plant Records System and are not retrievable from Framatome Records Management. These are acceptable references per Framatome Administrative Procedure 0402-01, Attachment 7. See page 2 for Project Manager approval of customer references.

- [1] Framatome Design Specification []
- [2] []
- [3] ASME Boiler and Pressure Vessel Code. Section III, Subsection NB. 2019 Edition.
- [4] ASME Boiler and Pressure Vessel Code. Section III, Appendices. 2019 Edition.
- [5] []
- [6] []
- [7] Framatome Engineering Calculation []
- [8] []
- [9] D. Dewitt F. Incropera. Fundamentals of Heat and Mass Transfer, 5th Ed. 2002.
- [10] Framatome Engineering Information Record []
- [11] ASME Boiler and Pressure Vessel Code. Section III, Appendices. 1986 Edition.
- [12] ASME Boiler and Pressure Vessel Code. Section II, Part D. 2019 Edition.
- [13] ASME Boiler and Pressure Vessel Code. Section III, Appendices. 1965 Edition.
- [14] Framatome Drawing []
- [15] Framatome Software Release Authorization 2A4.31-2A4-SATB-1.0_SRA-000. "SATB, Version 1.0, Linux".
- [16] Framatome Software Release Authorization 2A4.31-2A4-ANSYS Mechanical APDL-19.2_SRA-000. "ANSYS Mechanical APDL, Version 19.2, Linux".
- [17] Framatome Software Release Authorization 2A4.31-2A4-SCIPYENV-2024.07.3_SRA-000. "SCIPYENV, Version 2024.07.3, Linux".
- [18] Weld Research Council. WRC Bulletin 432, Fatigue Strength Reduction and Stress Concentration Factors for Welds in Pressure Vessels and Piping. June, 1998.
- [19] Warren C. Young. "Roark's Formulas for Stress & Strain, 6th Ed.".
- [20] Framatome Calculation, []
- [21] Framatome Administrative Procedure 0902-28, Revision 10. "Development of Engineering Applications Software".

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

A Appendix

A.1 Thermal Plots - Timepoints Selected for Structural Analysis

A.1.1 Minimum FSWOL Configuration



Figure A-1: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - HUCD

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-2: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for -
LOL

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-3: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - LPCF

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Figure A-4: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - PLPU_0_100

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Figure A-5: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - PLPU_50_100

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-6: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - RT

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-7: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - SD

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-8: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - SI

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-9: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - SVO

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-10: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - Hydro

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-11: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - Leak

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Figure A-12: Minimum FSWOL Configuration Timepoints Selected for Structural Analysis for - NPV

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

A.1.2 Maximum FSWOL Configuration



Figure A–13: Maximum FSWOL Configuration Timepoints Selected for Structural Analysis for - HUCD

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Figure A-14: Maximum FSWOL Configuration Timepoints Selected for Structural Analysis for -
LOL

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-15: Maximum FSWOL Configuration Timepoints Selected for Structural Analysis for - LPCF

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Figure A-16: Maximum FSWOL Configuration Timepoints Selected for Structural Analysis for - PLPU_0_100

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Figure A-17: Maximum FSWOL Configuration Timepoints Selected for Structural Analysis for - PLPU_50_100

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-18: Maximum FSWOL Configuration Timepoints Selected for Structural Analysis for - RT

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-19: Maximum FSWOL Configuration Timepoints Selected for Structural Analysis for - SD

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



Figure A-20: Maximum FSWOL Configuration Timepoints Selected for Structural Analysis for - SI

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Figure A-21: Maximum FSWOL Configuration Timepoints Selected for Structural Analysis for - SVO

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

A.2 Structural Timepoints

A.2.1 Minimum FSWOL Configuration

Table A-1: Minimum FSWOL Configuration Structural Timepoints - HUCD

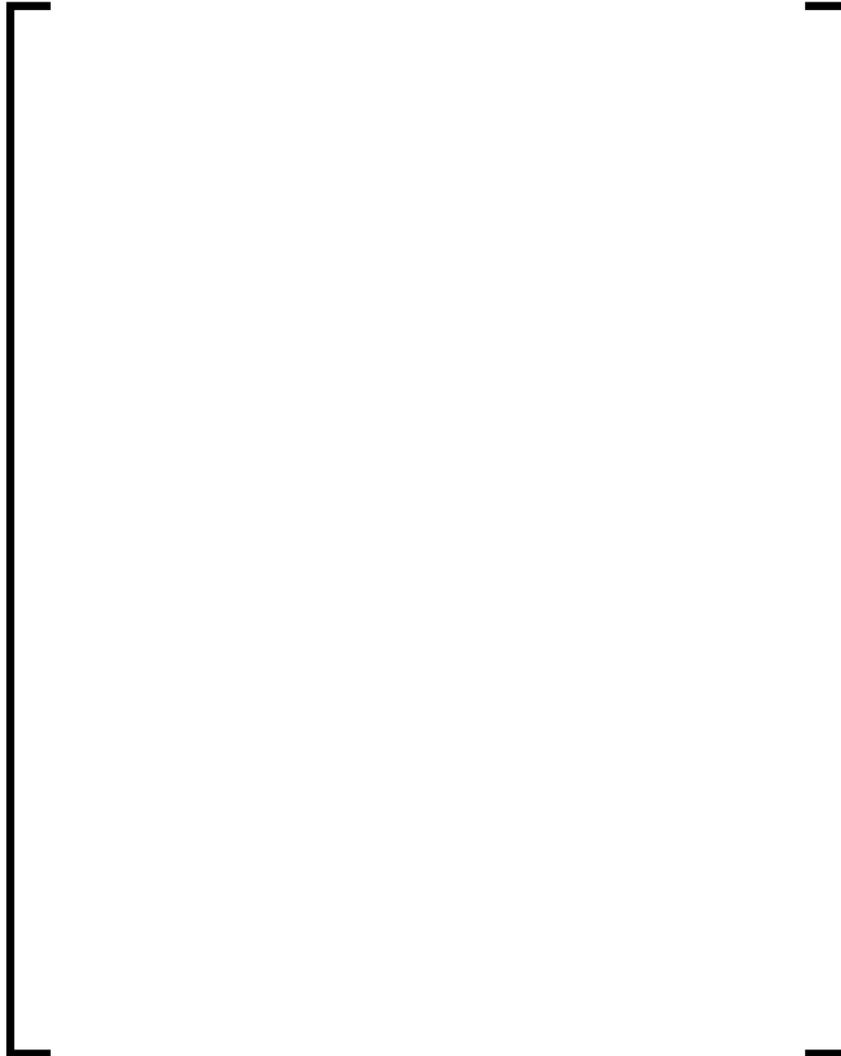
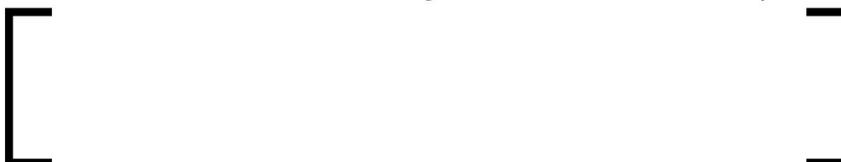
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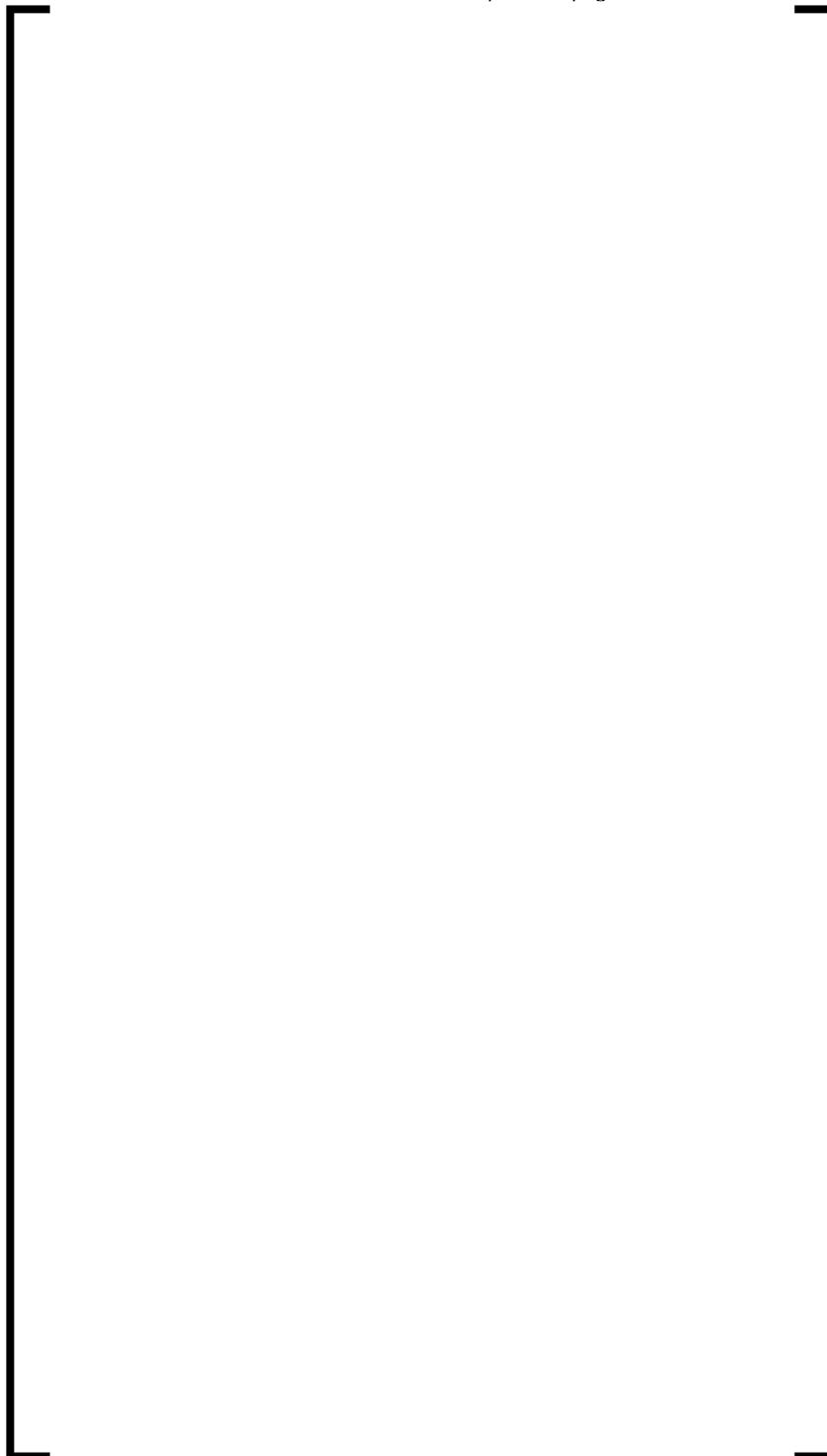
Table A-2: Minimum FSWOL Configuration Structural Timepoints - LOL

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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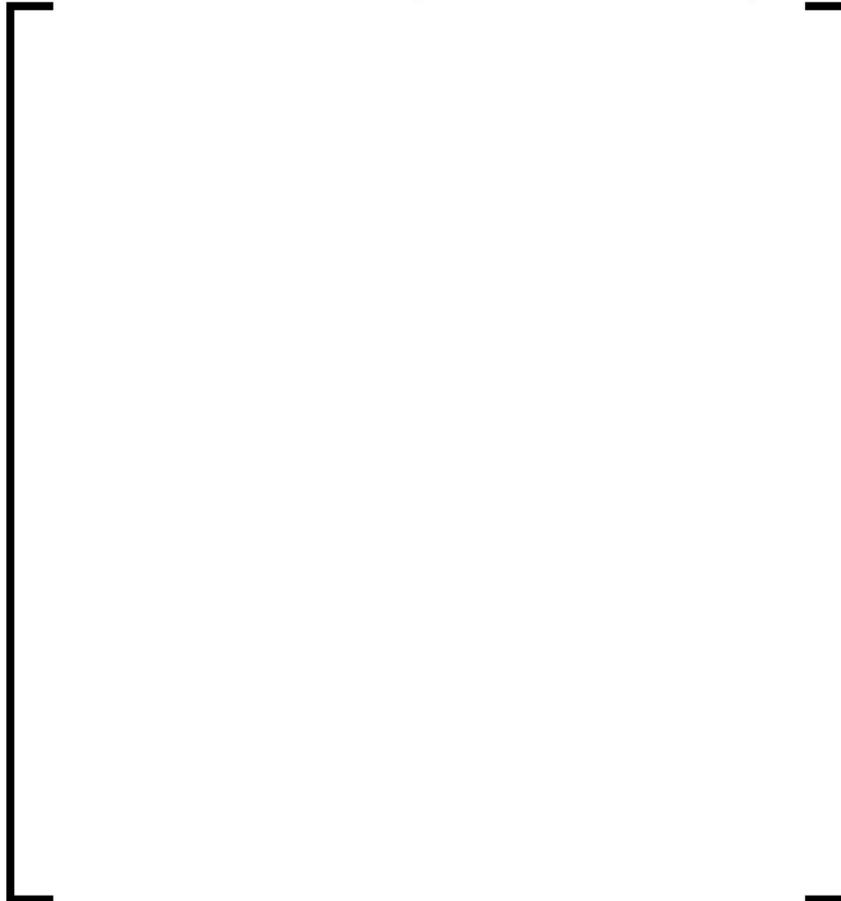
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table A-2 – continued from previous page



Table A-3: Minimum FSWOL Configuration Structural Timepoints - LPCF



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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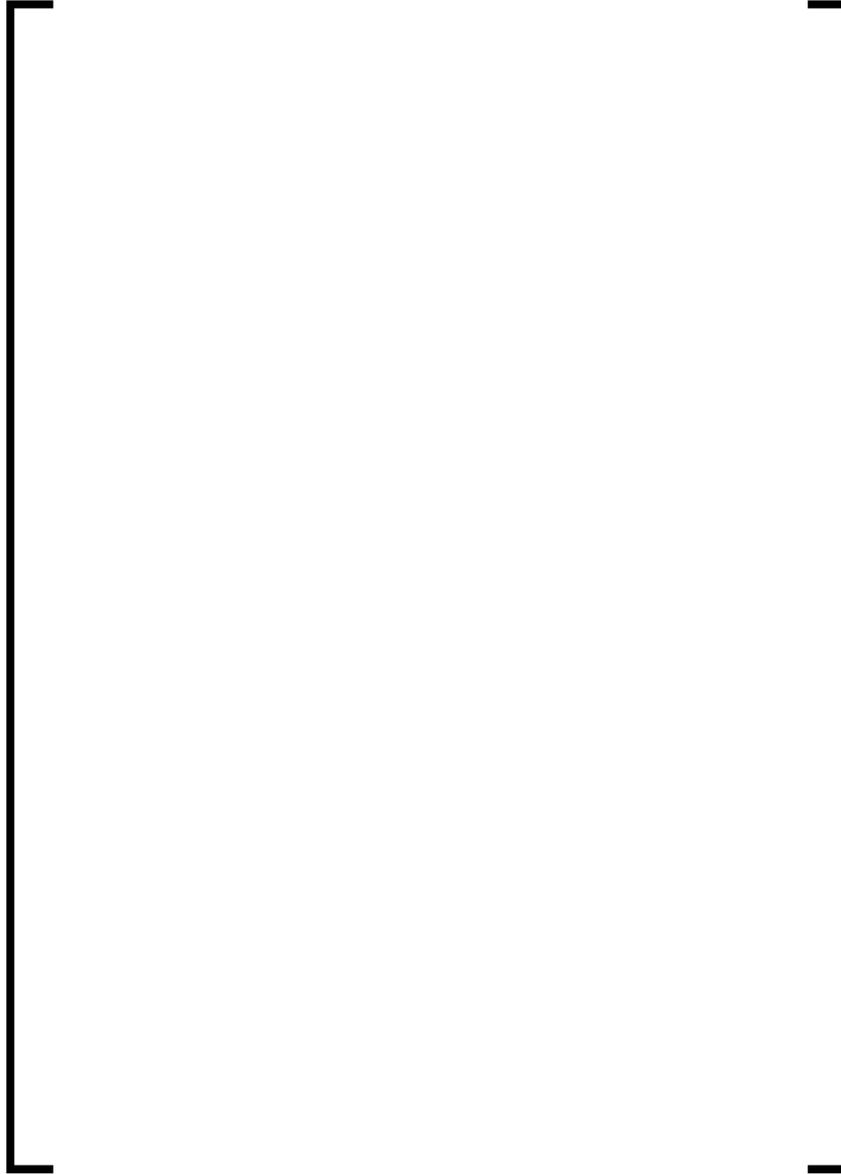


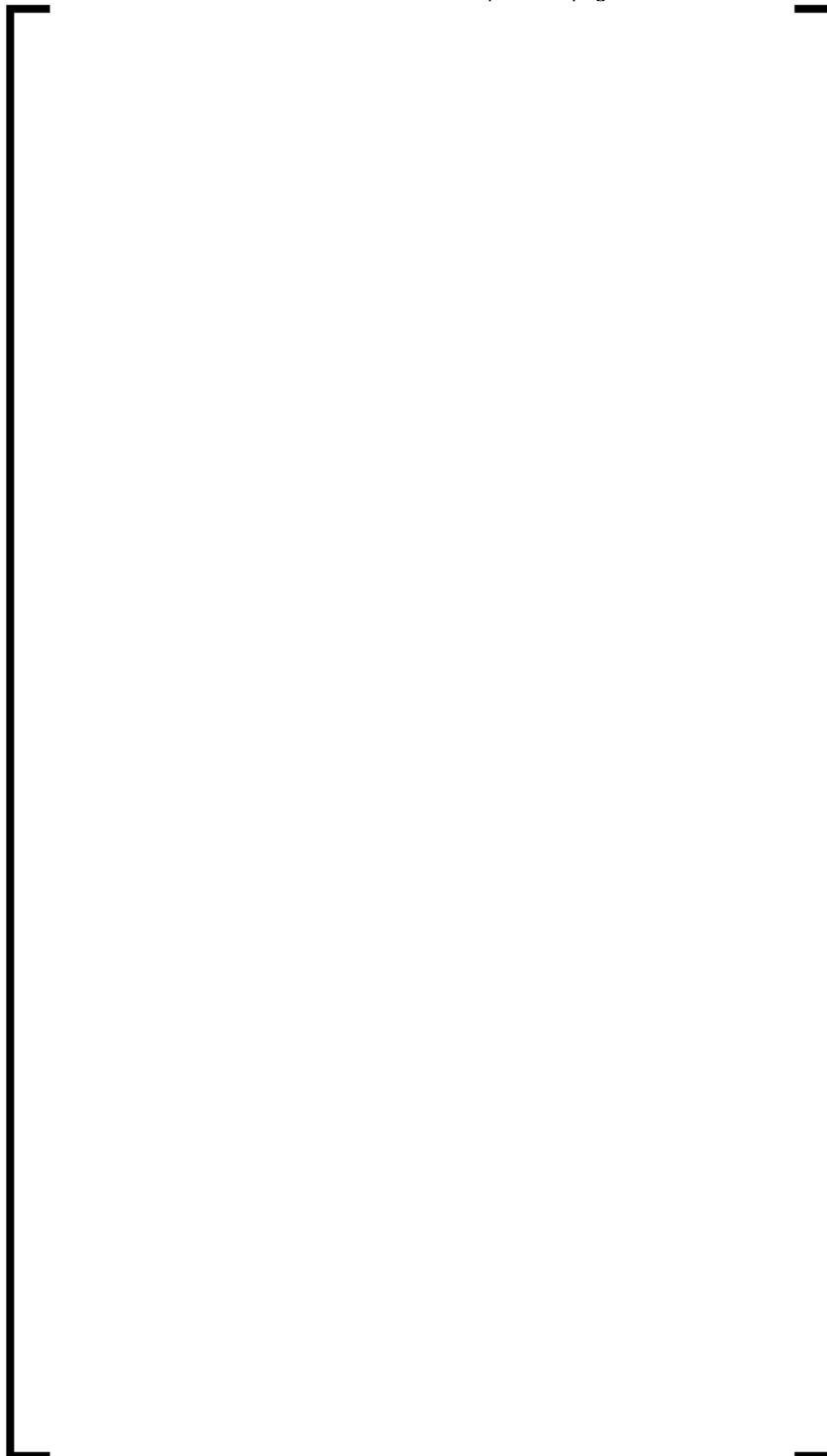
Table A-4: Minimum FSWOL Configuration Structural Timepoints - PLPU_0_100



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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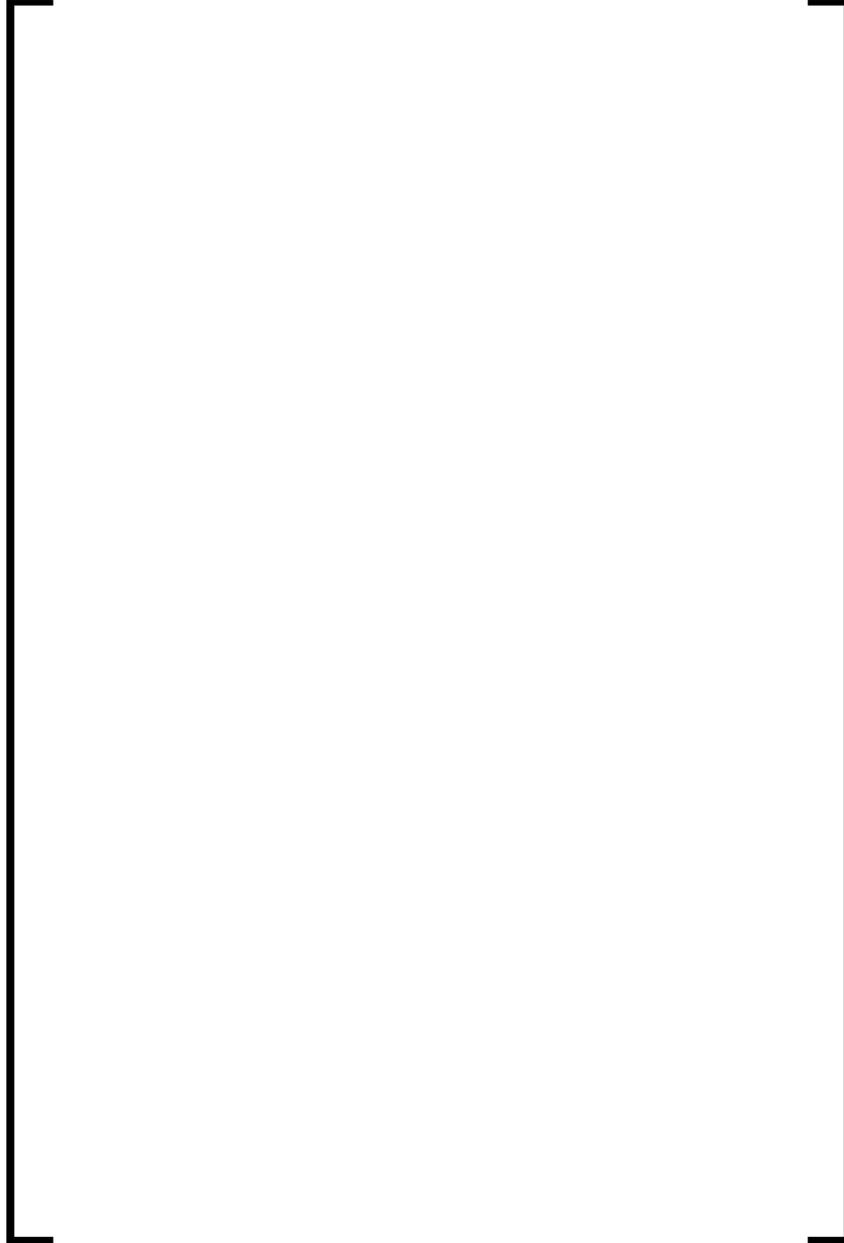
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table A-4 – continued from previous page



Table A-5: Minimum FSWOL Configuration Structural Timepoints - PLPU_50_100



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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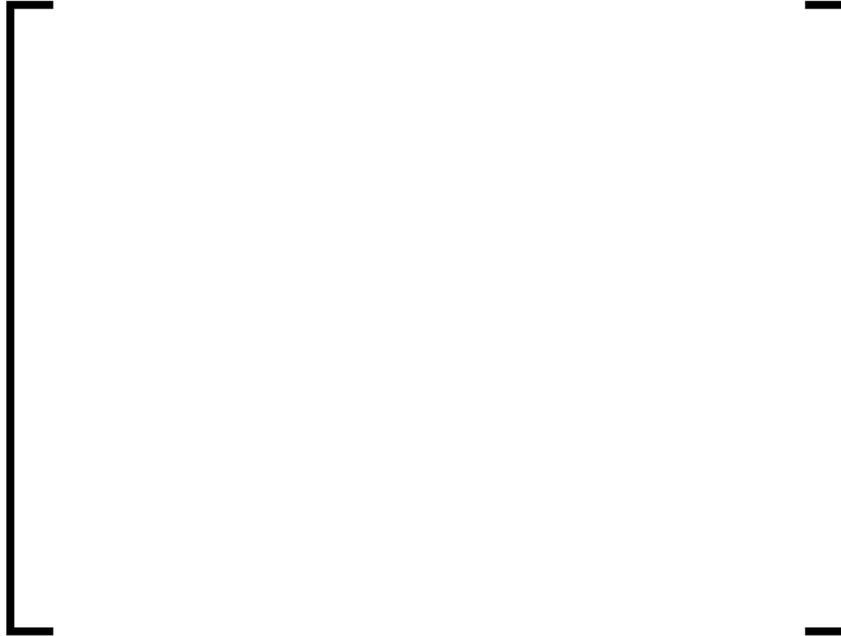


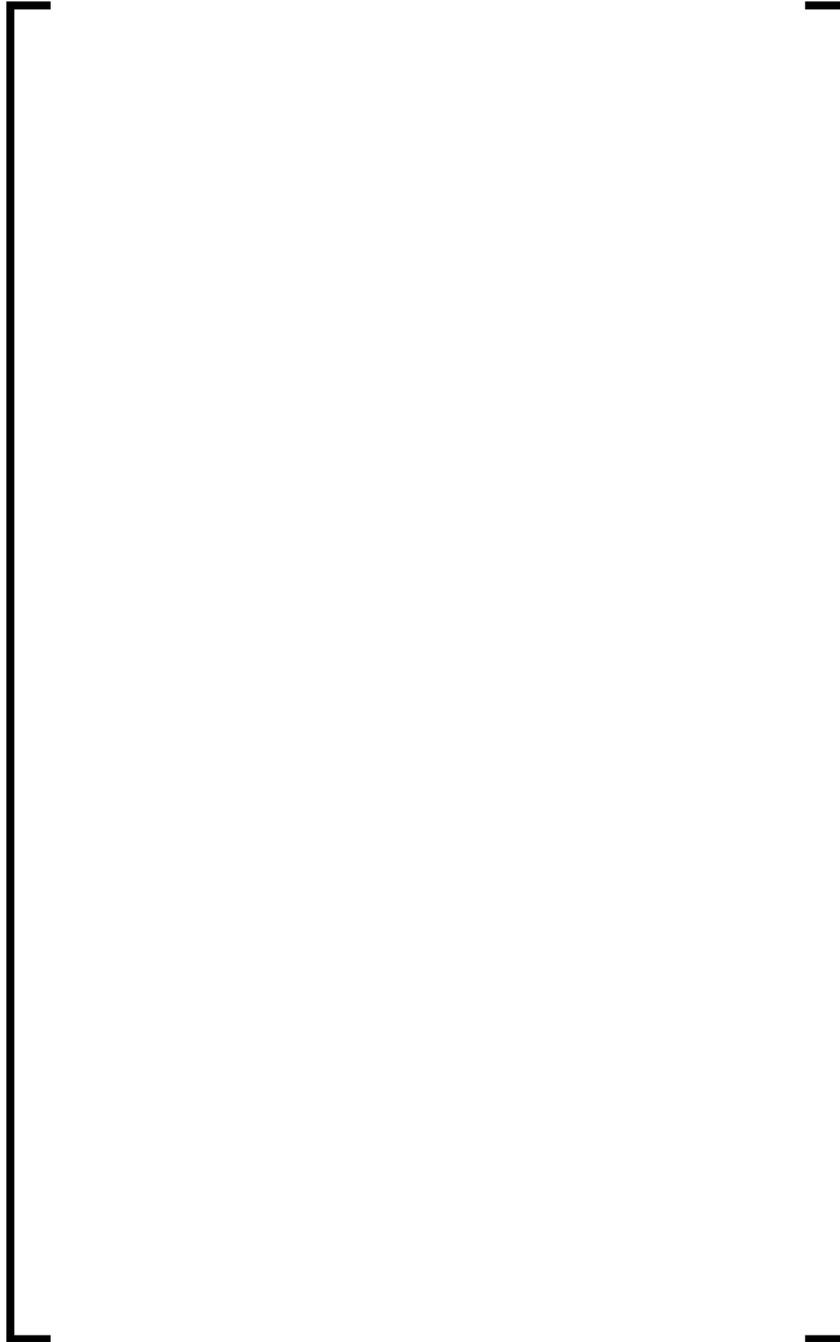
Table A-6: Minimum FSWOL Configuration Structural Timepoints - RT



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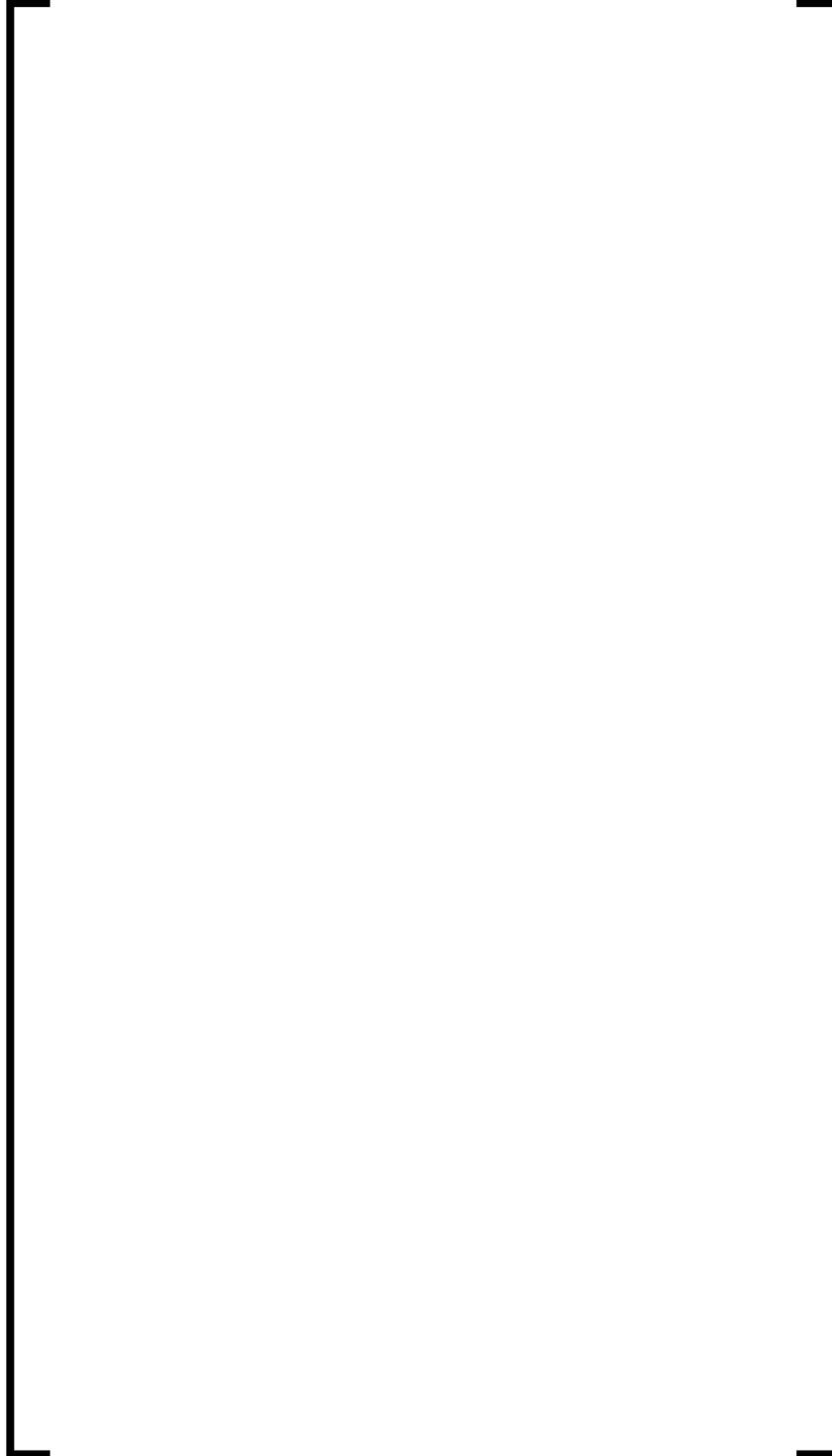
ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table A-7: Minimum FSWOL Configuration Structural Timepoints - SD



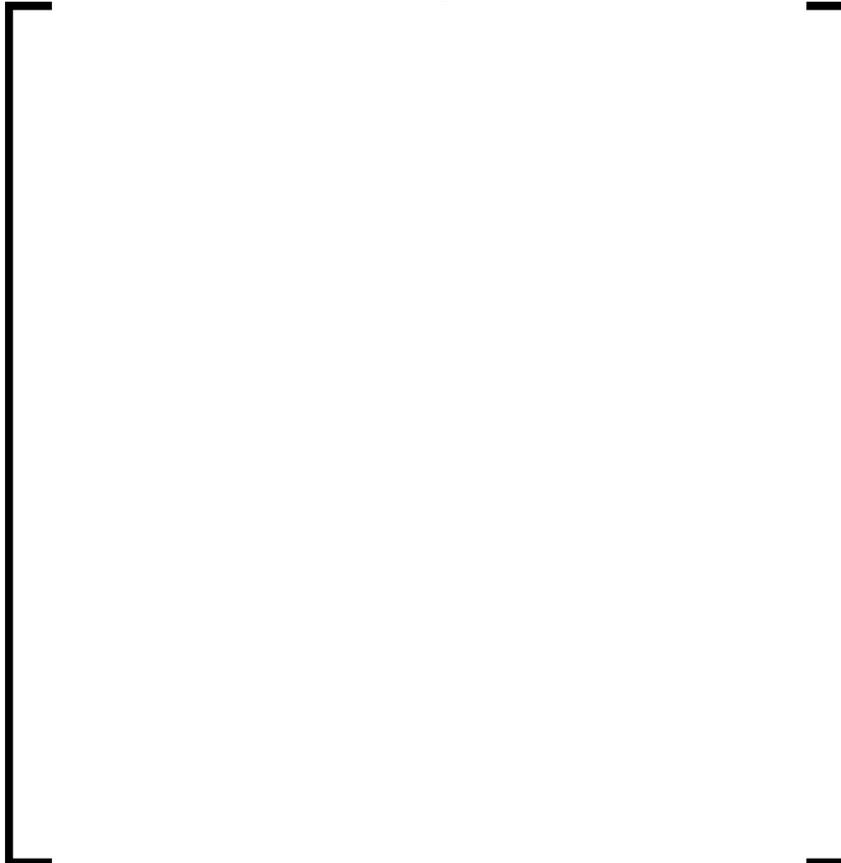
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table A-7 – continued from previous page



Table A-8: Minimum FSWOL Configuration Structural Timepoints - SI



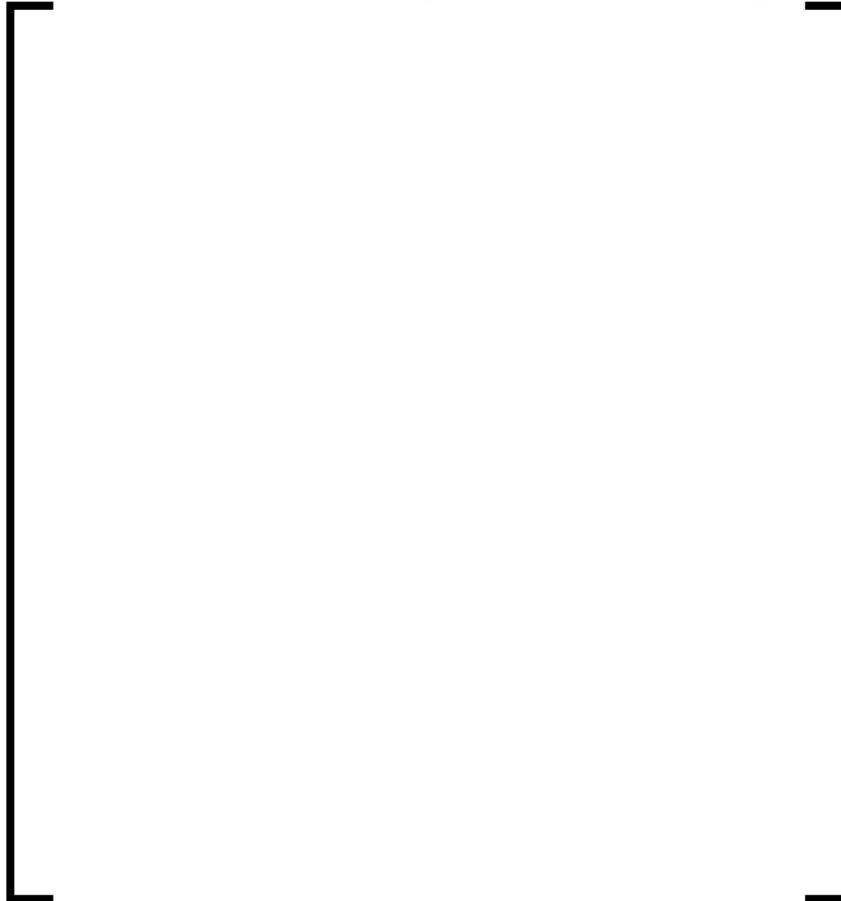
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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table A-8 – continued from previous page



Table A-9: Minimum FSWOL Configuration Structural Timepoints - SVO



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table A-9 – continued from previous page



Table A-10: Minimum FSWOL Configuration Structural Timepoints - Hydro



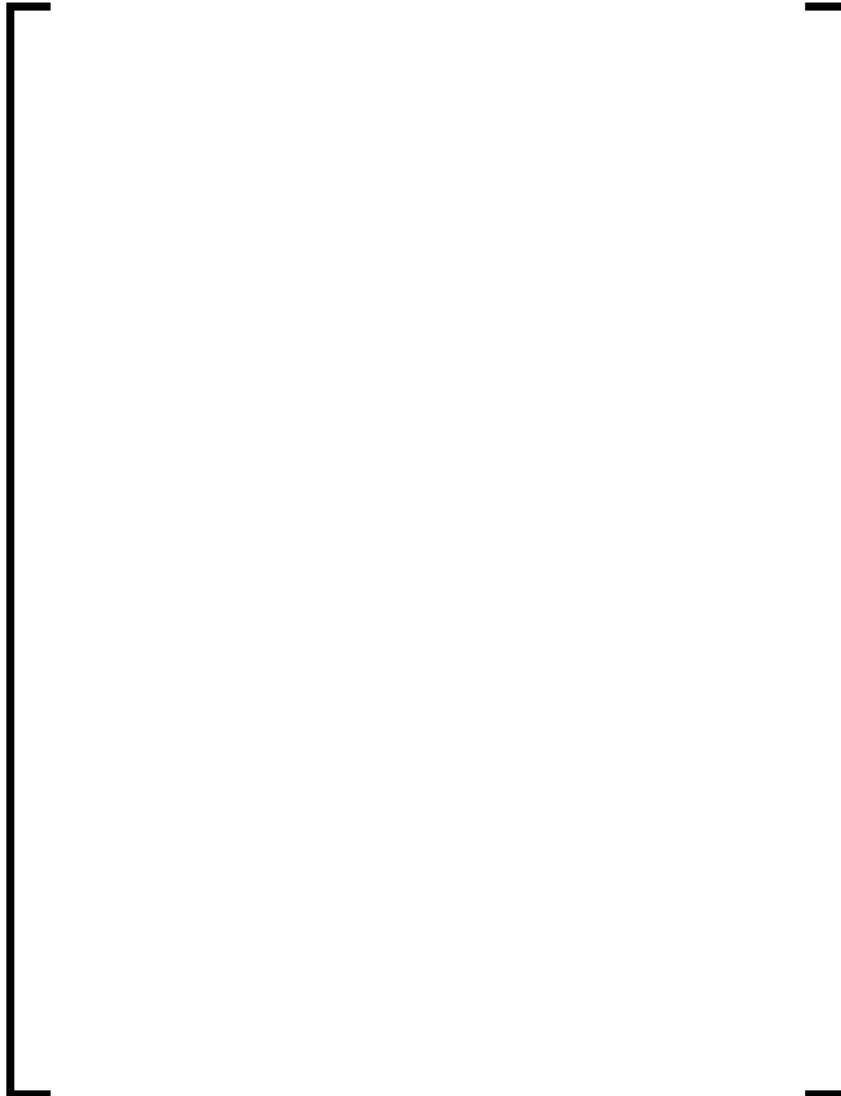
Table A-11: Minimum FSWOL Configuration Structural Timepoints - Leak

ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary



A.2.2 Maximum FSWOL Configuration

Table A-12: Maximum FSWOL Configuration Structural Timepoints - HUCD



ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table A-13: Maximum FSWOL Configuration Structural Timepoints - LOL



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table A-13 – continued from previous page



Table A-14: Maximum FSWOL Configuration Structural Timepoints - LPCF



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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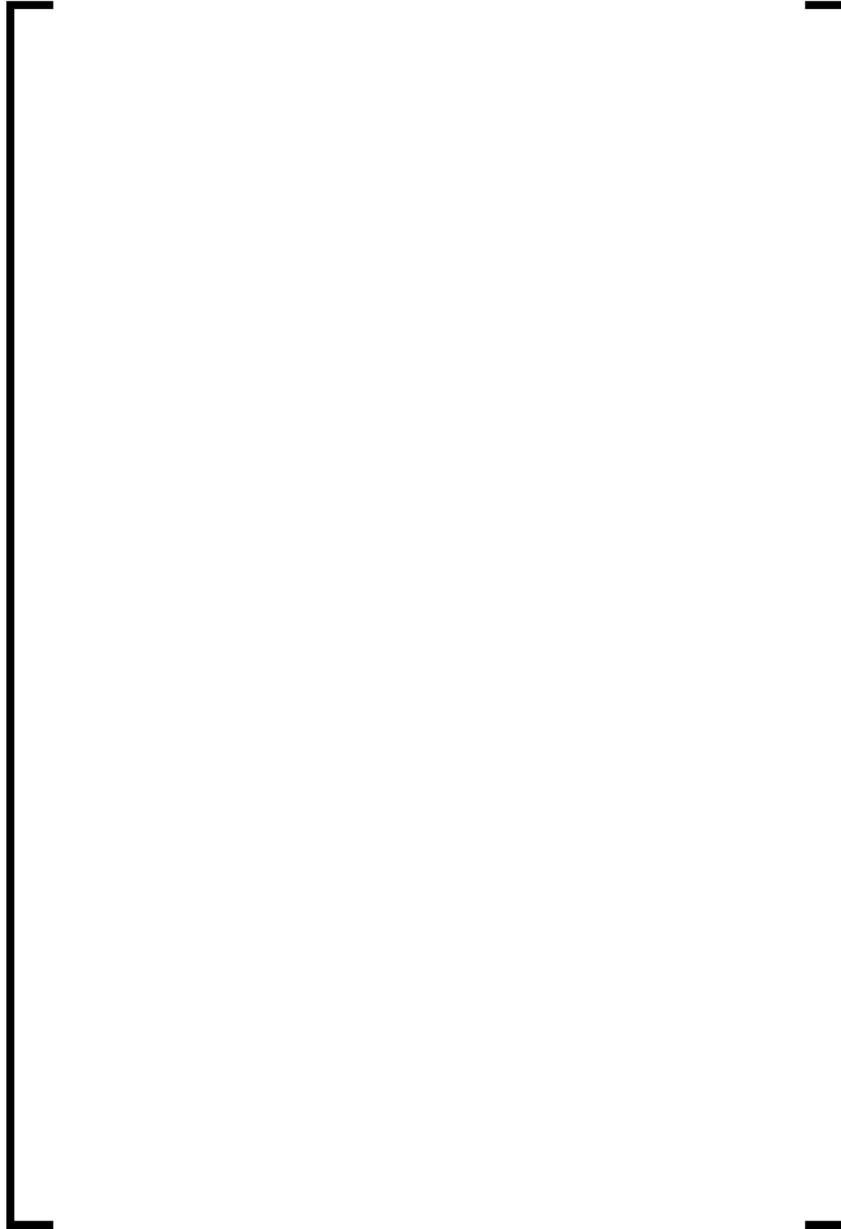


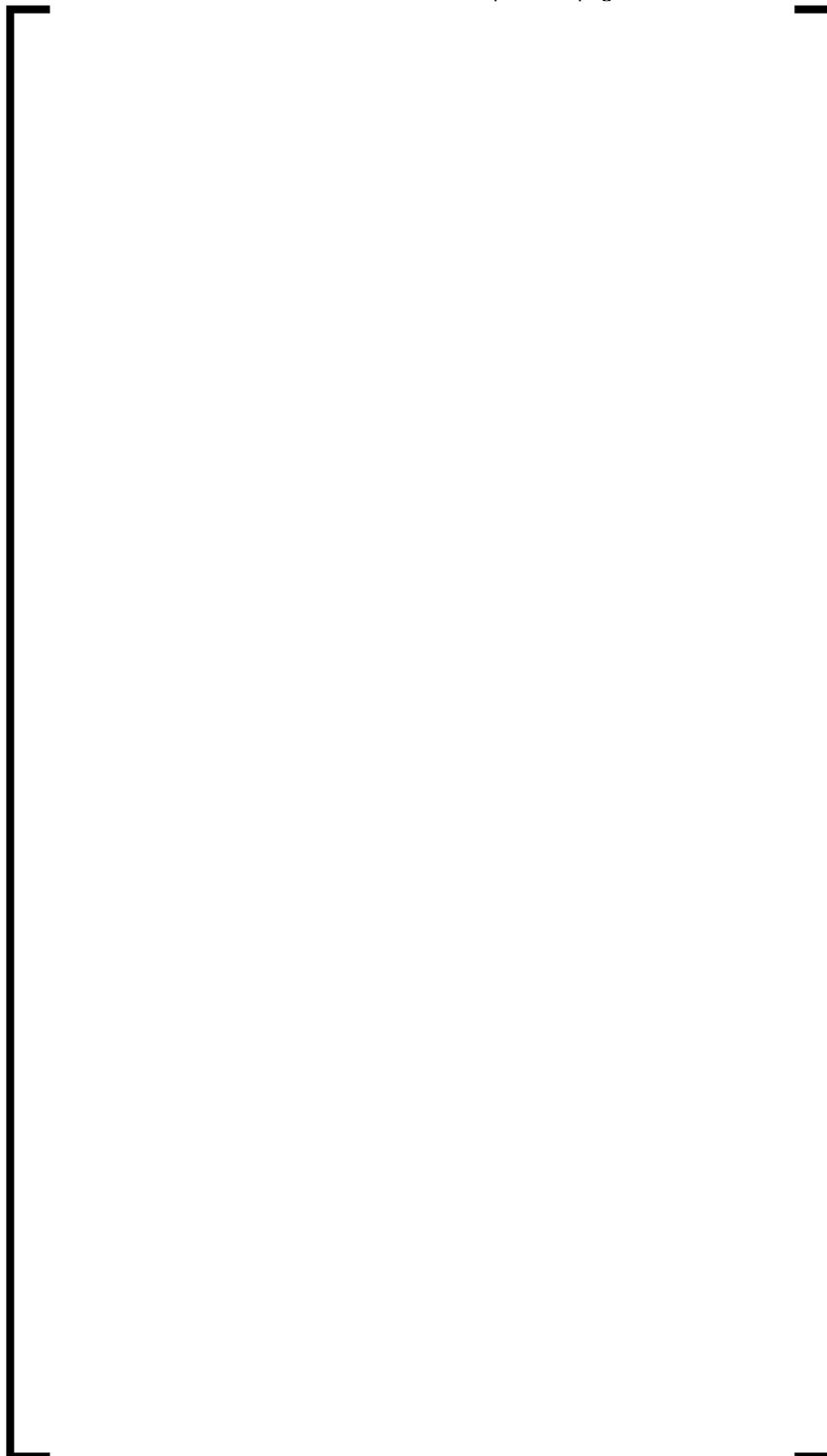
Table A-15: Maximum FSWOL Configuration Structural Timepoints - PLPU_0_100



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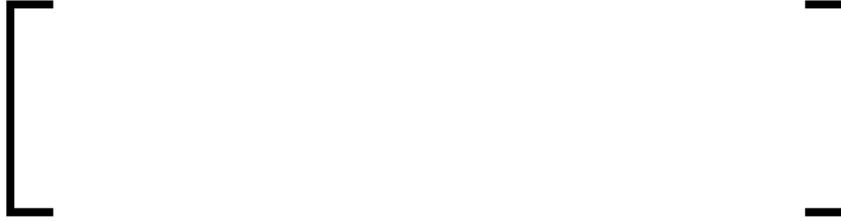


Table A-16: Maximum FSWOL Configuration Structural Timepoints - PLPU_50_100



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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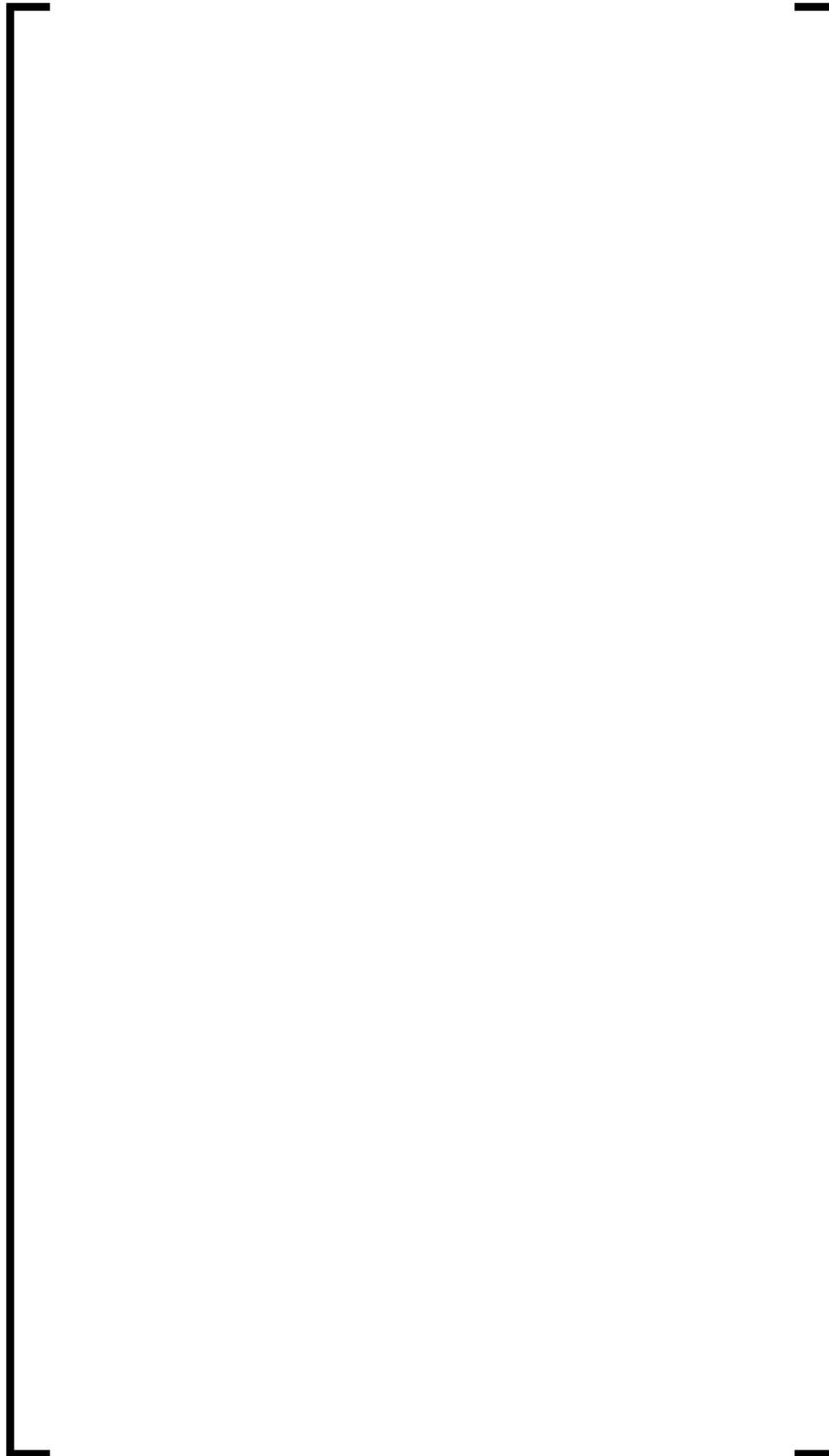
Table A-17: Maximum FSWOL Configuration Structural Timepoints - RT



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ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

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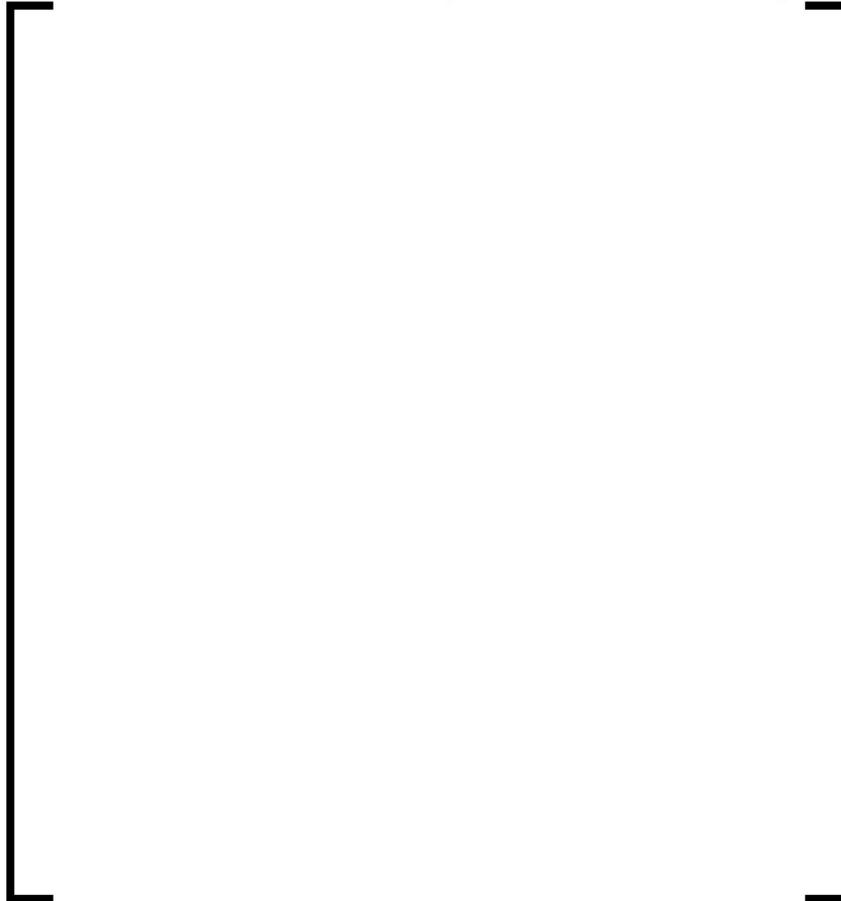
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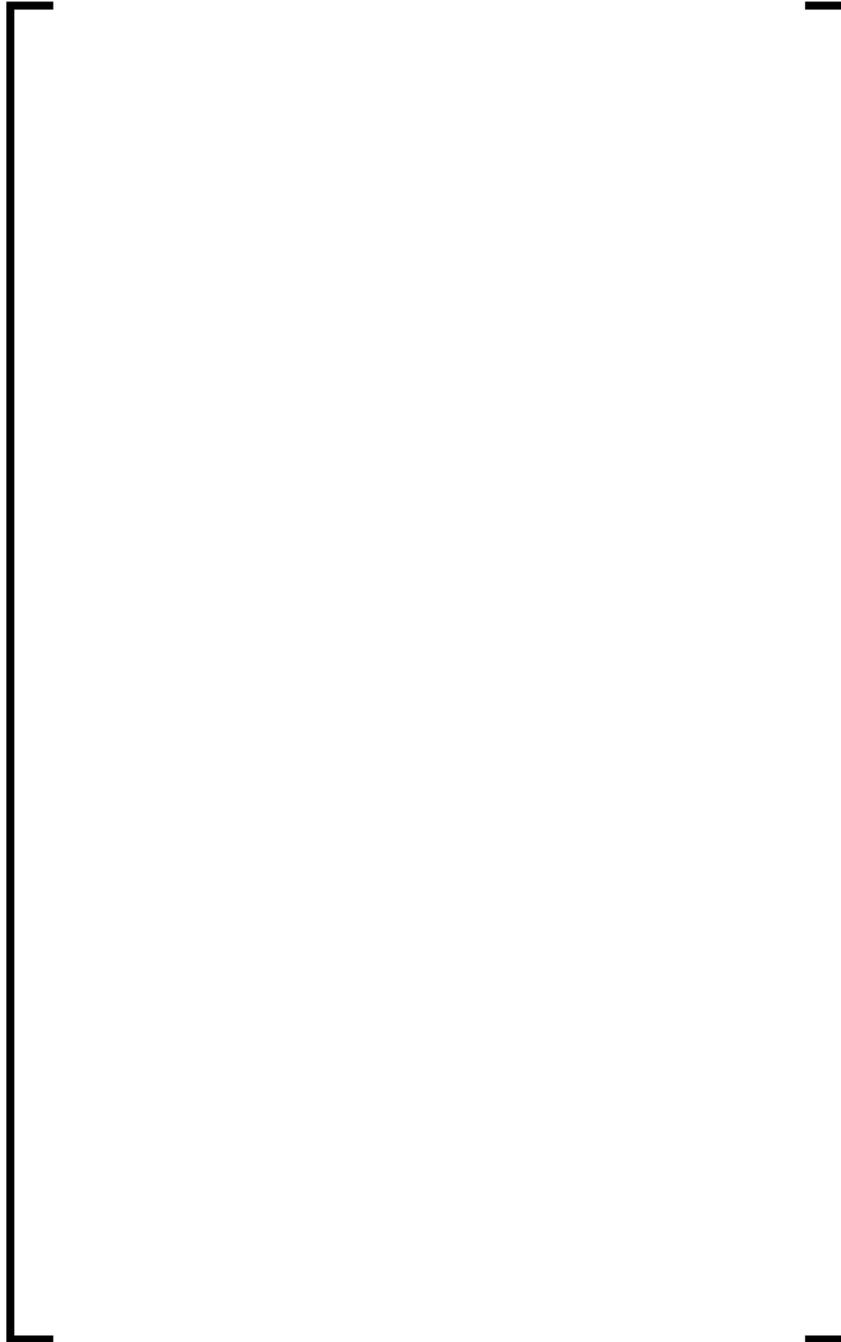
Table A-18: Maximum FSWOL Configuration Structural Timepoints - SD



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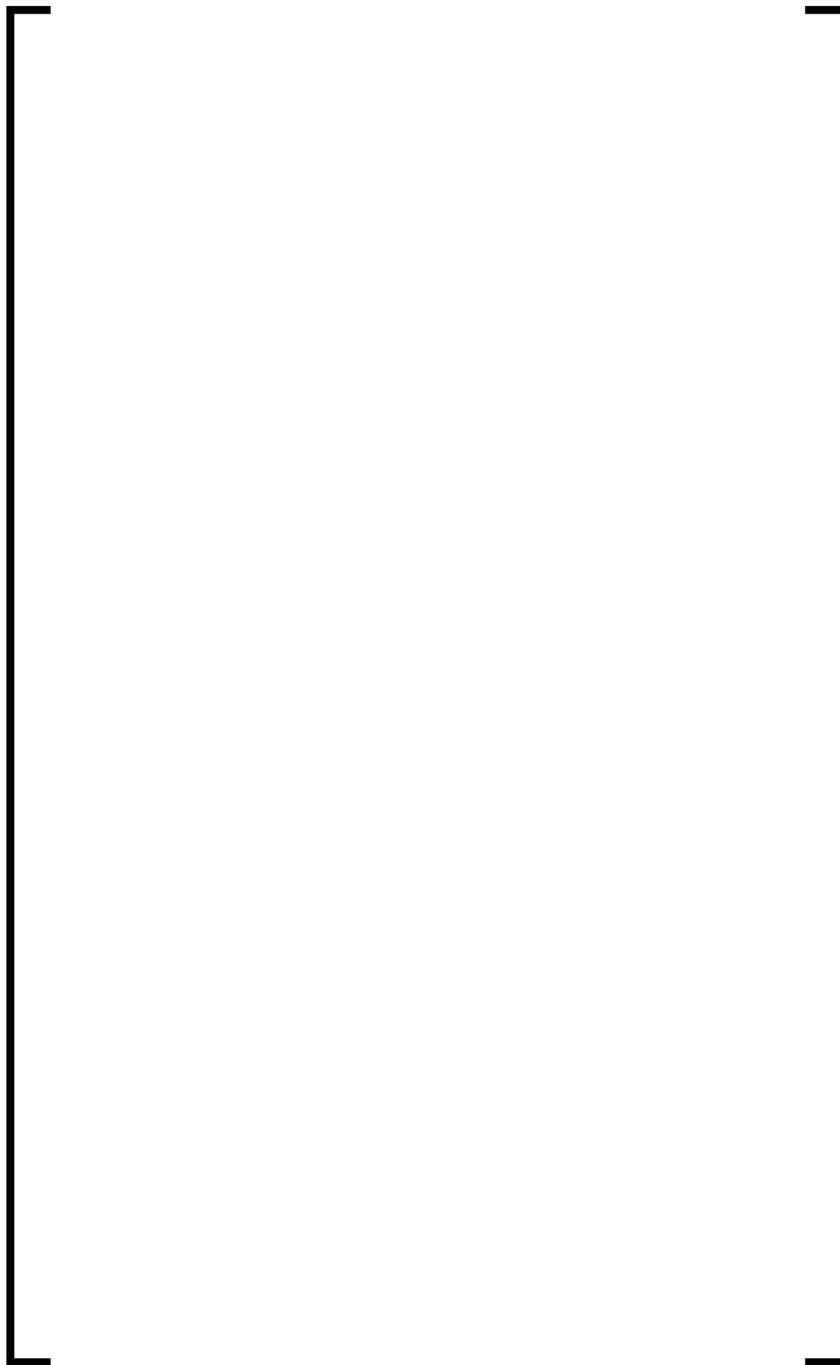
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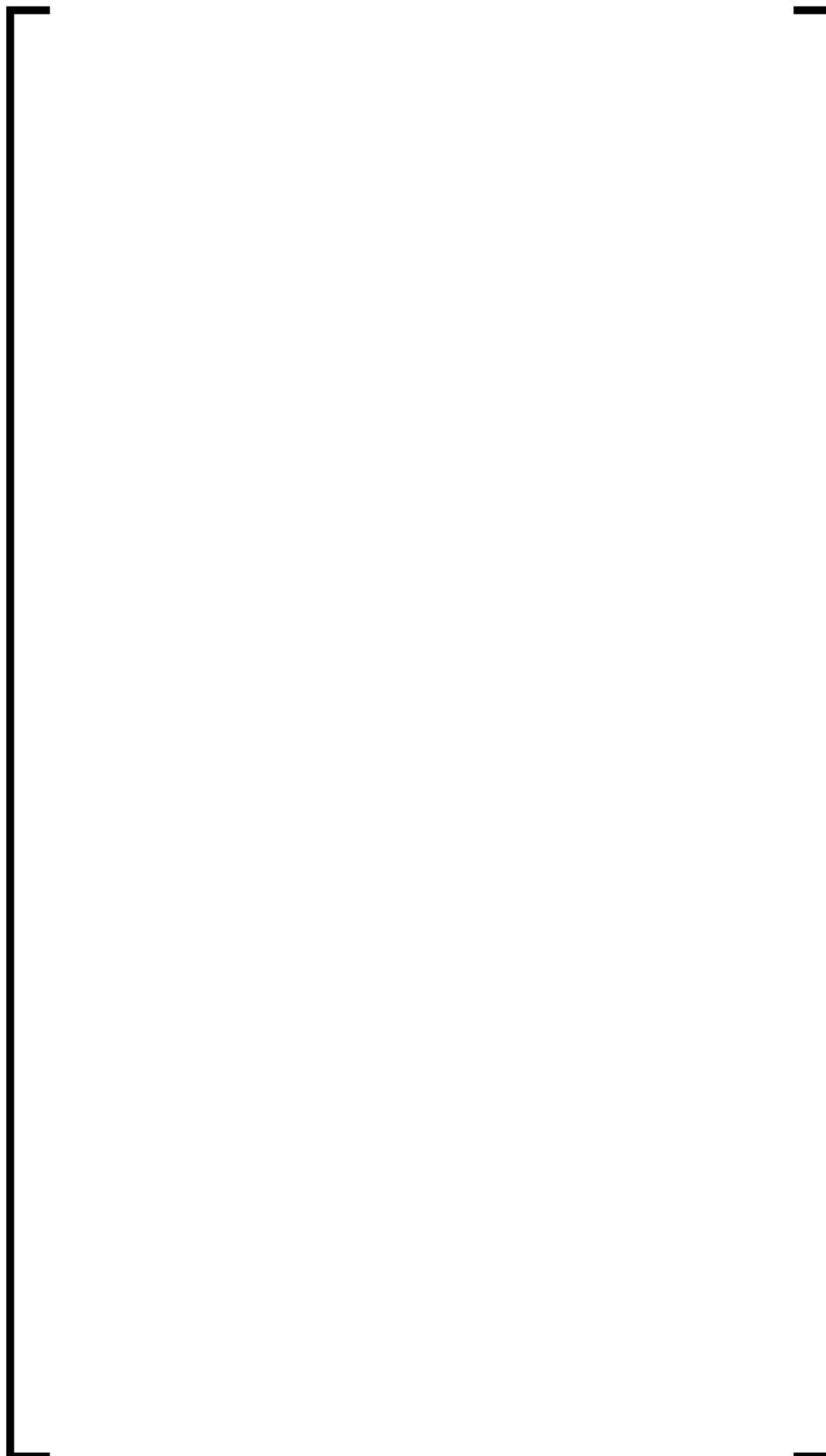
ASME Section III Analysis- Palisades Hot Leg Surge Nozzle FSWOL - Non-Proprietary

Table A-19: Maximum FSWOL Configuration Structural Timepoints - SI



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Table A-20: Maximum FSWOL Configuration Structural Timepoints - SVO



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Table A-20 – continued from previous page



Table A-21: Maximum FSWOL Configuration Structural Timepoints - Hydro



Table A-22: Maximum FSWOL Configuration Structural Timepoints - Leak



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A.3 Stress Intensity

Table A-23: Calculated Stress Intensity for External Loads - Minimum FSWOL Model



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