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Timing Analysis of PWR Fuel Pin Failures

Final Report
Appendices K-L

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ABSTRACT

Research has been conducted to develop and demonstrate a methodology for calculation of the time interval between receipt of the containment isolation signals and the first fuel pin failure for loss-of-coolant accidents (LOCAs). Demonstration calculations were performed for a Babcock and Wilcox (B&W) design (Oconee) and a Westinghouse (W) four-loop design (Seabrook). Sensitivity studies were performed to assess the impacts of fuel pin burnup, axial peaking factor, break size, emergency core cooling system availability, and main coolant pump trip on these times. The analysis was performed using the following codes: FRAPCON-2, for the calculation of steady-state fuel behavior; SCDAP/RELAP5/MOD3 and TRAC-PF1/MOD1, for the calculation of the transient thermal-hydraulic conditions in the reactor system; and FRAP-T6, for the calculation of transient fuel behavior. In addition to the calculation of fuel pin failure timing, this analysis provides a comparison of the predicted results of SCDAP/RELAP5/MOD3 and TRAC-PF1/MOD1 for large-break LOCA analysis.

Using SCDAP/RELAP5/MOD3 thermal-hydraulic data, the shortest time intervals calculated between initiation of containment isolation and fuel pin failure are 10.4 seconds and 19.1 seconds for the B&W and W plants, respectively. Using data generated by TRAC-PF1/MOD1, the shortest intervals are 10.3 seconds and 29.1 seconds for the B&W and W plants, respectively. These intervals are for a double-ended, offset-shear, cold leg break, using the technical specification maximum peaking factor and applied to fuel with maximum design burnup. Using peaking factors commensurate with actual burnups would result in longer intervals for both reactor designs.

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Appendix K

Plots for the Timing Analysis of PWR Fuel Pin Failures for Oconee

APPENDIX K

PLOTS FOR THE TIMING ANALYSIS OF PWR FUEL PIN FAILURES FOR OCONEE

Appendix K contains the plotted results for the timing analysis of PWR fuel pin failures for the Oconee reactor. Section K-1 contains the SCDAP/RELAP5/MOD3 plots of total core power, collapsed reactor water level, reactor upper head and pressurizer dome pressures, containment pressure, fission product release, internal pin pressures, fuel centerline temperatures, cladding surface temperatures, hoop strains, total break flow, accumulator flow, accumulator liquid volume, hot leg flows, cold leg flows, hot channel core flow, downcomer void fractions, mass error, time step size, and cpu time for the nine accident scenarios. Section K-2 contains the FRAP-T6 plots of failure probability, internal pin pressure, cladding hoop strain, cladding surface temperature, fuel centerline temperature, and oxide thickness for the nine accident scenarios. Section K-3 contains plots comparing TRAC-PF1/MOD1 and SCDAP/RELAP5/MOD3 results for the 100% DBA case for the following variables: core thermal power, collapsed reactor water level, pressurizer dome and reactor upper head pressures, total break flow, accumulator flow, accumulator liquid volume, hot leg flow, cold leg flow, hot channel core flow, downcomer void fractions, and time step size. Tables K-1, K-2, and K-3 provide a listing of the plot variables.

K-1. SCDAP/RELAP5/MOD3 PLOTTED RESULTS FOR OCONEE

Table K-1. Description of SCDAP/RELAP5/MOD3 plot variables for Ocone.

Variable	Description
0-rktpow	Total core thermal power (W)
0-rkfipow	Total core fission power (W)
0-rkgapow	Total core decay heat (W)
4010-cntrlvar	Hot channel collapsed reactor water level for Ocone (m)
4040-cntrlvar	Core-average collapsed reactor water level for Ocone (m)
550010000-p	Reactor upper head pressure for Ocone (Pa)
615010000-p	Pressurizer dome pressure for Ocone (Pa)
949010000-p	Containment pressure for Ocone (Pa)
0-bgtfprs	Soluble fission product release rate (kg/s)
0-bgtfprn	Insoluble fission product release rate (kg/s)
1-pgas	Average-burnup fuel pin internal pressure (Pa)
2-pgas	Low-burnup fuel pin internal pressure (Pa)
3-pgas	High-burnup fuel pin internal pressure (Pa)
1nn02-cadct	Low-burnup fuel pin centerline temperature for node nn (K)
1nn03-cadct	High-burnup fuel pin centerline temperature for node nn (K)
14nn02-cadct	Low-burnup fuel pin cladding temperature for node nn (K)
14nn03-cadct	High-burnup fuel pin cladding temperature for node nn (K)
n02-hoop	Low-burnup fuel pin cladding hoop strain for node n (dimensionless)
n03-hoop	High-burnup fuel pin cladding hoop strain for node n (dimensionless)
410-cntrlvar	Total break flow (kg/s)
702000000-mflowj	Total accumulator flow for Ocone (kg/s)
700-acvlig	Total accumulator liquid volume for Ocone (m ³)
100000000-mflowj	Hot leg flow for the Ocone broken loop (kg/s)
200000000-mflowj	Hot leg flow for the Ocone intact loop (kg/s)
151000000-mflowj	Cold leg flow for the Ocone broken loop (kg/s)
181000000-mflowj	Cold leg flow for the Ocone intact loop (kg/s)
251000000-mflowj	Cold leg flow for the Ocone intact loop (kg/s)
281000000-mflowj	Cold leg flow for the Ocone intact loop (kg/s)
1n010000-mflowj	Hot channel flows for n = 1, 3, 5, 7, and 9 for Ocone (kg/s)

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
hoop strains for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
hoop strains for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
hoop strains for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
bl downcomer void fractions

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
il downcomer void fractions

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
mass error

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
time step size

B&W (OCONEE) 100% DBA LOCA PIN FAILURE
cpu time

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
hoop strains for 55 GWD/MTU pin

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
bl downcomer void fractions

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
il downcomer void fractions

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
mass error

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
time step size

B&W (OCONEE) 90% DBA LOCA PIN FAILURE
cpu time

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
hoop strains for 55 GWD/MTU pin

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
bl downcomer void fractions

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
il downcomer void fractions

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
mass error

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
time step size

B&W (OCONEE) 75% DBA LOCA PIN FAILURE
cpu time

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
core thermal power

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
collapsed reactor water level

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
pressures

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
containment pressure

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
fission product release

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
internal pin pressures

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
hoop strains for 55 GWD/MTU pin

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
bl downcomer void fractions

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
il downcomer void fractions

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
mass error

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
time step size

B&W (OCONEE) 50% DBA LOCA PIN FAILURE
cpu time

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
hoop strains for 55 GWD/MTU pin

B&W (OCONEL) SMALL BREAK LOCA PIN FAILURE
total break flow

B&W (OCONEL) SMALL BREAK LOCA PIN FAILURE
accumulator flow

B&W (OCONEL) SMALL BREAK LOCA PIN FAILURE
accumulator liquid volume (m3)

B&W (OCONEL) SMALL BREAK LOCA PIN FAILURE
hot leg flows

B&W (OCONEL) SMALL BREAK LOCA PIN FAILURE
cold leg flows

B&W (OCONEL) SMALL BREAK LOCA PIN FAILURE
hot channel core flow

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
bl downcomer void fractions

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
il downcomer void fractions

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
mass error

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
time step size

B&W (OCONEE) SMALL BREAK LOCA PIN FAILURE
cpu time

B&W (OCONEE) 100% DBA LPF, PUMP TRIP
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP
hoop strains for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
hoop strains for 55 GWD/MTU pin

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
bl downcomer void fractions

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
il downcomer void fractions

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
mass error

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
time step size

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
cpu time

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
broken loop hpi flow

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
intact loop hpi flow

B&W (OCONEE) 100% DBA LPF, PUMP TRIP & ECCS
combined hpi & lpi flow

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
fuel centerline temperatures for 5 GWD/MTU pin

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
fuel centerline temperatures for 55 GWD/MTU pin

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
cladding surface temperatures for 5 GWD/MTU pin

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
cladding surface temperatures for 55 GWD/MTU pin

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
hoop strains for 5 GWD/MTU pin

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
hoop strains for 55 GWD/MTU pin

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
total break flow

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
accumulator flow

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
accumulator liquid volume (m3)

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
hot leg flows

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
cold leg flows

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
hot channel core flow

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
bl downcomer void fractions

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
il downcomer void fractions

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
mass error

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
time step size

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
cpu time

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
broken loop hpi flow

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
intact loop hpi flow

B&W (OCONEE) SB LOCA PIN FAILURE w/ ECCS
combined hpi & lpi flow

K-2. FRAP-T6 PLOTTED RESULTS FOR OCONEE

Table K-2. Description of FRAP-T6 plot variables for Ocone.

Variable	Description
0-ffr	Failure probability
0-prspln	Internal pin pressure (psia, Pa)
n-cladhsn	Cladding hoop strain at axial node n
n-cladote	Cladding surface temperature at axial node n (°F, K)
n-ctemp	Fuel centerline temperature at axial node n (°F, K)
n-ooxtn	Oxide thickness at axial node n (in., mm)

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 100%DBA 35 GWD MTU PIN --PF 2.63
cladding surface temperature

OCONEE 100%DBA 35 GWD, MTU PIN PF 2.63
fuel centerline temperature

OCONEE 100%DBA 35 GWD MTU PIN PF 2.63
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN --PF 2.63
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN --PF 2.63
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN --PF 2.63
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN --PF 2.63
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN --PF 2.63
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN --PF 2.63
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4
internal pin pressure

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4
failure probability

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4
cladding hoop strain

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4
cladding surface temperature

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4
fuel centerline temperature

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4
oxide thickness

OCONEL 100 DBA 20 GWD/MIU PIN-- PF 24
internal pin pressure

OCONEL 100%DBA 20 GWD MIU PIN PF 24
failure probability

OCONEL 100 DBA 20 GWD/MIU PIN PF 24
cladding hoop strain

OCONEL 100%DBA 20 GWD MIU PIN --PF 24
cladding surface temperature

OCONEL 100 DBA 20 GWD/MIU PIN--PF 24
fuel centerline temperature

OCONEL 100%DBA 20 GWD MIU PIN-- PF 24
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PI 22
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PI 22
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PI 22
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PI 22
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PI 22
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PI 22
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN- PF 2.0
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN -PF 2.0
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 90%DBA 55 GWD/MTU PIN --PF 2.4
internal pin pressure

OCONEE 90%DBA 55 GWD/MTU PIN --PF 2.4
failure probability

OCONEE 90%DBA 55 GWD/MTU PIN --PF 2.4
cladding hoop strain

OCONEE 90%DBA 55 GWD/MTU PIN --PF 2.4
cladding surface temperature

OCONEE 90%DBA 55 GWD/MTU PIN --PF 2.4
fuel centerline temperature

OCONEE 90%DBA 55 GWD/MTU PIN --PF 2.4
oxide thickness

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.4
internal pin pressure

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.4
failure probability

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.4
cladding hoop strain

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.4
cladding surface temperature

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.4
fuel centerline temperature

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.4
oxide thickness

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.4
internal pin pressure

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.4
failure probability

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.4
cladding hoop strain

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.4
cladding surface temperature

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.4
fuel centerline temperature

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.4
oxide thickness

OCONEE 90%DBA 5 GWD/MTU PIN---PF 2.4
internal pin pressure

OCONEE 90%DBA 5 GWD/MTU PIN---PF 2.4
failure probability

OCONEE 90%DBA 5 GWD/MTU PIN---PF 2.4
cladding hoop strain

OCONEE 90%DBA 5 GWD/MTU PIN---PF 2.4
cladding surface temperature

OCONEE 90%DBA 5 GWD/MTU PIN---PF 2.4
fuel centerline temperature

OCONEE 90%DBA 5 GWD/MTU PIN---PF 2.4
oxide thickness

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 90%DBA 55 GWD/MTU PIN --PF 2.2
failure probability

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 90%DBA 55 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 90%DBA 20 GWD/MTU PIN --PF 2.2
oxide thickness

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 90%DBA 55 GWD/MTU PIN-- PF 2.0
internal pin pressure

OCONEE 90%DBA 55 GWD/MTU PIN-- PF 2.0
failure probability

OCONEE 90%DBA 55 GWD/MTU PIN-- PF 2.0
cladding hoop strain

OCONEE 90%DBA 55 GWD/MTU PIN-- PF 2.0
cladding surface temperature

OCONEE 90%DBA 55 GWD/MTU PIN-- PF 2.0
fuel centerline temperature

OCONEE 90%DBA 55 GWD/MTU PIN-- PF 2.0
oxide thickness

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2 0
internal pin pressure

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2 0
failure probability

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2 0
cladding hoop strain

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2 0
cladding surface temperature

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2 0
fuel centerline temperature

OCONEE 90%DBA 35 GWD/MTU PIN--PF 2 0
oxide thickness

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 90%DBA 20 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 90%DBA 5 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 75%DBA 35 GWD/MTU PIN---PF 2.63
internal pin pressure

OCONEE 75%DBA 35 GWD/MTU PIN---PF 2.63
failure probability

OCONEE 75%DBA 35 GWD/MTU PIN---PF 2.63
cladding hoop strain

OCONEE 75%DBA 35 GWD/MTU PIN---PF 2.63
cladding surface temperature

OCONEE 75%DBA 35 GWD/MTU PIN---PF 2.63
fuel centerline temperature

OCONEE 75%DBA 35 GWD/MTU PIN -- PF 2.63
oxide thickness

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2 4
internal pin pressure

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2 4
failure probability

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2 4
cladding hoop strain

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2 4
cladding surface temperature

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2 4
fuel centerline temperature

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2 4
oxide thickness

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.4
internal pin pressure

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.4
failure probability

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.4
cladding hoop strain

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.4
cladding surface temperature

OCONEE 75%DBA 35 GWD/MTU PIN --PF 2.4
fuel centerline temperature

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.4
oxide thickness

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.4
internal pin pressure

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.4
failure probability

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.4
cladding hoop strain

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.4
cladding surface temperature

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.4
fuel centerline temperature

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.4
oxide thickness

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 75%DBA 55 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 75%DBA 35 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2 0
internal pin pressure

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2 0
failure probability

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2 0
cladding hoop strain

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2 0
cladding surface temperature

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2 0
fuel centerline temperature

OCONEE 75%DBA 20 GWD/MTU PIN--PF 2 0
oxide thickness

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 75%DBA 5 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.63
failure probability

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2 4
internal pin pressure

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2 4
failure probability

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2 4
cladding hoop strain

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2 4
cladding surface temperature

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2 4
fuel centerline temperature

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2 4
oxide thickness

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.4
internal pin pressure

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.4
failure probability

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.4
cladding hoop strain

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.4
cladding surface temperature

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.4
fuel centerline temperature

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.4
oxide thickness

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.4
internal pin pressure

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.4
failure probability

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.4
cladding hoop strain

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.4
cladding surface temperature

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.4
fuel centerline temperature

OCONEE 50%DBA 20 GWD/MTU PIN--PF 2.4
oxide thickness

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.4
internal pin pressure

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.4
failure probability

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.4
cladding hoop strain

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.4
cladding surface temperature

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.4
fuel centerline temperature

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.4
oxide thickness

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.2
internal pin pressure

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.2
failure probability

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.2
cladding hoop strain

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.2
cladding surface temperature

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.2
fuel centerline temperature

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.2
oxide thickness

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 50%DBA 55 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 50%DBA 35 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.0
internal pin pressure

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.0
failure probability

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.0
cladding hoop strain

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.0
cladding surface temperature

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.0
fuel centerline temperature

OCONEE 50%DBA 5 GWD/MTU PIN--PF 2.0
oxide thickness

OCONEE 100%DBA 55 GWD/MIU PIN--PI 2.63 W/TRIP OCONEE 100%DBA 55 GWD/MIU PIN--PI 2.63 W/TRIP

OCONEE 100%DBA 55 GWD/MIU PIN--PI 2.63 W/TRIP OCONEE 100%DBA 55 GWD/MIU PIN--PI 2.63 W/TRIP

OCONEE 100%DBA 55 GWD/MIU PIN--PI 2.63 W/TRIP OCONEE 100%DBA 55 GWD/MIU PIN--PI 2.63 W/TRIP

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/TRIP
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/TRIP
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/TRIP
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/TRIP
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN PF 2.63 W/TRIP
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/TRIP
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/TRIP
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/TRIP
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/TRIP
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/TRIP
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/TRIP
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/TRIP
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/TRIP
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/TRIP
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/TRIP
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 24 W/TRIP
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 24 W/TRIP
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 24 W/TRIP
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 24 W/TRIP
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 24 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 24 W/TRIP
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/TRIP
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/TRIP
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/TRIP
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/TRIP
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/TRIP
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/TRIP
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/TRIP
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/TRIP
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/TRIP
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/TRIP
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/TRIP
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/TRIP
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/TRIP
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/TRIP
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/TRIP
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/TRIP
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/TRIP
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/TRIP
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/TRIP
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/TRIP
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/TRIP
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/TRIP
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/TRIP
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/TRIP
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/TRIP
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/TRIP
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN --PF 2.2 W/TRIP
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/TRIP
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN --PF 2.2 W/TRIP
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/TRIP
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/TRIP
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/TRIP
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/TRIP
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/TRIP
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/TRIP
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/TRIP
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/TRIP
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/TRIP
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/TRIP
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/TRIP
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/TRIP
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/TRIP
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/TRIP
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/TRIP
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/TRIP
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/TRIP
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/TRIP
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/TRIP
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/TRIP
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/TRIP
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/TRIP
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/TRIP
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/TRIP
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/TRIP
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/TRIP
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/TRIP
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/ECCS

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/ECCS

internal pin pressure

failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/ECCS

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/ECCS

cladding hoop strain

cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/ECCS

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/ECCS

fuel centerline temperature

oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/ECCS internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/ECCS failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/ECCS cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/ECCS cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/ECCS fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/ECCS oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/ECCS internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/ECCS failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/ECCS cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/ECCS cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/ECCS fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/ECCS oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/ECCS
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/ECCS
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/ECCS
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/ECCS
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/ECCS
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/ECCS
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/ECCS
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/ECCS
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/ECCS
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/ECCS
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/ECCS
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/ECCS
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN -- PF 2.4 W/ECCS
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/ECCS
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/ECCS
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/ECCS
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/ECCS
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/ECCS
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/ECCS
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 W/ECCS
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/ECCS
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/ECCS
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/ECCS
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/ECCS
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/ECCS
oxide thickness

OCONFF 100%DBA 55 GWD/MIU PIN--PF 2.2 W/ECCS
internal pin pressure

OCONFF 100%DBA 55 GWD/MIU PIN -PI 2.2 W/ECCS
failure probability

OCONLL 100%DBA 55 GWD/MIU PIN--PI 2.2 W/ECCS
cladding hoop strain

OCONLI 100%DBA 55 GWD/MIU PIN -PI 2.2 W/ECCS
cladding surface temperature

OCONEL 100%DBA 55 GWD/MIU PIN -PI 2.2 W/ECCS
fuel centerline temperature

OCONFF 100%DBA 55 GWD/MIU PIN -PI 2.2 W/ECCS
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/ECCS

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/FCCS

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/ECCS

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/FCCS

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/ECCS

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/FCCS

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/ECCS
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN-- PF 2.2 W/ECCS
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/ECCS
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/ECCS
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN -- PF 2.2 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN -- PF 2.2 W/ECCS
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/ECCS
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/ECCS
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/ECCS
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/ECCS
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/ECCS
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/ECCS

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/ECCS

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/ECCS

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/ECCS

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/ECCS

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/ECCS

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/ECCS
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/ECCS
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/ECCS
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/ECCS
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/ECCS
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/ECCS
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN PF 2.0 W/ECCS
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/ECCS
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/ECCS
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/ECCS
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/ECCS
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/ECCS
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/ECCS
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/ECCS
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/ECCS
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/ECCS
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/E&PT OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/E&PT

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/E&PT OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/E&PT

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/E&PT OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 W/E&PT

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/E&PT OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/E&PT
internal pin pressure failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/E&PT OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/E&PT
cladding hoop strain cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/E&PT OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/E&PT
fuel centerline temperature oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/E&PT OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/E&PT

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/E&PT OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/E&PT

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/E&PT OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/E&PT

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/E&PT
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/E&PT
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/E&PT
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/E&PT
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/E&PT
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 4 W/E&PT
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 4 W/E&PT
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 4 W/E&PT
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 4 W/E&PT
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 4 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 4 W/E&PT
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/E&PT
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/E&PT
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/E&PT
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/E&PT
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/E&PT
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2 4 W/E&PT
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2 4 W/E&PT
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2 4 W/E&PT
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2 4 W/E&PT
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2 4 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2 4 W/E&PT
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/E&PT
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/E&PT
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/E&PT
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/E&PT
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/E&PT
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2 W/E&PT
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2 W/E&PT
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2 W/E&PT
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2 W/E&PT
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 2 W/E&PT
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2 2 W/E&PT
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2 2 W/E&PT
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2 2 W/E&PT
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2 2 W/E&PT
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2 2 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2 2 W/E&PT
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/E&PT
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/E&PT
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/E&PT
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/E&PT
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/E&PT
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/E&PT
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/E&PT
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/E&PT
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/E&PT
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/E&PT
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/E&PT
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/E&PT
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/E&PT
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/E&PT
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2 0 W/E&PT
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/E&PT
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/E&PT
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/E&PT
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/E&PT
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/E&PT
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/E&PT
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/E&PT
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/E&PT
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/E&PT
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/E&PT
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/E&PT
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/E&PT
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/E&PT
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/E&PT
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/E&PT
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/E&PT
oxide thickness

OCONEE 100%DBA 55 GWD MIU PIN--PI 2.63 W/EMON OCONEE 100%DBA 55 GWD/MTU PIN PI 2.63 W/EMON

OCONEE 100%DBA 55 GWD MIU PIN--PI 2.63 W/EMON OCONEE 100%DBA 55 GWD/MTU PIN PI 2.63 W/EMON

OCONEE 100%DBA 55 GWD MTU PIN--PI 2.63 W/EMON OCONEE 100%DBA 55 GWD MIU PIN--PI 2.63 W/EMON

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/FMON OCONEE 100%DBA 35 GWD MTU PIN--PF 2.63 W/FMON

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/FMON OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/FMON

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/FMON OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 W/FMON

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/EMON OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/EMON

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/EMON OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/EMON

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/EMON OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 W/EMON

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/EMON
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/EMON
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/EMON
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/EMON
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/EMON
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 W/EMON
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/EMON

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/EMON

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/EMON

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/EMON

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/EMON

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.4 W/EMON

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/EMON
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/EMON
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/EMON
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/EMON
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/EMON
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 W/EMON
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN -PF 24 W/EMON
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 24 W/EMON
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN -PF 24 W/EMON
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 24 W/EMON
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN -PF 24 W/EMON
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN- PF 24 W/EMON
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/EMON
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/EMON
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/EMON
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/EMON
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/EMON
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 W/EMON
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/EMON
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/EMON
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/EMON
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/EMON
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/EMON
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 W/EMON
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/EMON

OCONEE 100%DBA 35 GWD/MTU PIN---PF 2.2 W/EMON

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/EMON

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/EMON

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/EMON

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 W/EMON

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/EMON
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/EMON
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/EMON
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/EMON
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/EMON
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 W/EMON
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/EMON
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/EMON
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/EMON
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/EMON
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/EMON
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 W/EMON
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/EMON
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/EMON
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/EMON
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/EMON
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/EMON
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 W/EMON
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/EMON
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/EMON
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/EMON
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/EMON
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/EMON
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 W/EMON
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/EMON
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/EMON
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/EMON
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/EMON
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/EMON
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 W/EMON
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/EMON
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/EMON
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/EMON
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/EMON
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/EMON
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 W/EMON
oxide thickness

OCONEE SMBRK 35 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE SMBRK 35 GWD/MTU PIN--PF 2.63
failure probability

OCONEE SMBRK 35 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE SMBRK 35 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE SMBRK 35 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE SMBRK 35 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE SMBRK 20 GWD/MTU PIN---PF 2.63
internal pin pressure

OCONEE SMBRK 20 GWD/MTU PIN---PF 2.63
failure probability

OCONEE SMBRK 20 GWD/MTU PIN---PF 2.63
cladding hoop strain

OCONEE SMBRK 20 GWD/MTU PIN---PF 2.63
cladding surface temperature

OCONEE SMBRK 20 GWD/MTU PIN---PF 2.63
fuel centerline temperature

OCONEE SMBRK 20 GWD/MTU PIN---PF 2.63
oxide thickness

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63
internal pin pressure

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63
failure probability

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63
cladding hoop strain

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63
cladding surface temperature

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63
fuel centerline temperature

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63
oxide thickness

OCONEE SMBRK 55 GWD/MTU PIN---PF 2.63 W/ECCS
internal pin pressure

OCONEE SMBRK 55 GWD/MTU PIN---PF 2.63 W/ECCS
failure probability

OCONEE SMBRK 55 GWD/MTU PIN---PF 2.63 W/ECCS
cladding hoop strain

OCONEE SMBRK 55 GWD/MTU PIN---PF 2.63 W/ECCS
cladding surface temperature

OCONEE SMBRK 55 GWD/MTU PIN---PF 2.63 W/ECCS
fuel centerline temperature

OCONEE SMBRK 55 GWD/MTU PIN---PF 2.63 W/ECCS
oxide thickness

OCONEE SMBRK 35 GWD/MTU PIN--PF 2 63 W/ECCS
internal pin pressure

OCONEE SMBRK 35 GWD/MTU PIN--PF 2 63 W/ECCS
failure probability

OCONEE SMBRK 35 GWD/MTU PIN--PF 2 63 W/ECCS
cladding hoop strain

OCONEE SMBRK 35 GWD/MTU PIN--PF 2 63 W/ECCS
cladding surface temperature

OCONEE SMBRK 35 GWD/MTU PIN--PF 2 63 W/ECCS
fuel centerline temperature

OCONEE SMBRK 35 GWD/MTU PIN--PF 2 63 W/ECCS
oxide thickness

OCONEE SMBRK 20 GWD/MTU PIN--PF 2 63 W/ECCS
internal pin pressure

OCONEE SMBRK 20 GWD/MTU PIN--PF 2 63 W/ECCS
failure probability

OCONEE SMBRK 20 GWD/MTU PIN--PF 2 63 W/ECCS
cladding hoop strain

OCONEE SMBRK 20 GWD/MTU PIN--PF 2 63 W/ECCS
cladding surface temperature

OCONEE SMBRK 20 GWD/MTU PIN--PF 2 63 W/ECCS
fuel centerline temperature

OCONEE SMBRK 20 GWD/MTU PIN--PF 2 63 W/ECCS
oxide thickness

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63 W/ECCS
internal pin pressure

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63 W/ECCS
failure probability

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63 W/ECCS
cladding hoop strain

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63 W/ECCS
cladding surface temperature

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63 W/ECCS
fuel centerline temperature

OCONEE SMBRK 5 GWD/MTU PIN--PF 2.63 W/ECCS
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 (TRAC)
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 (TRAC)
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 (TRAC)
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 (TRAC)
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.63 (TRAC)
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 (TRAC)
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 (TRAC)
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 (TRAC)
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 (TRAC)
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.63 (TRAC)
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 (TRAC)
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 (TRAC)
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 (TRAC)
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 (TRAC)
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.63 (TRAC)
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 (TRAC)
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 (TRAC)
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 (TRAC)
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 (TRAC)
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.63 (TRAC)
oxide thickness

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4 (TRAC)
internal pin pressure

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4 (TRAC)
failure probability

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4 (TRAC)
cladding hoop strain

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4 (TRAC)
cladding surface temperature

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 55 GWD/TU PIN--PF 2.4 (TRAC)
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 (TRAC)
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 (TRAC)
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 (TRAC)
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 (TRAC)
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.4 (TRAC)
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 (TRAC)
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 (TRAC)
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 (TRAC)
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 (TRAC)
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.4 (TRAC)
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 (TRAC)
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 (TRAC)
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 (TRAC)
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 (TRAC)
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.4 (TRAC)
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 (TRAC)
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 (TRAC)
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 (TRAC)
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 (TRAC)
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.2 (TRAC)
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 (TRAC)
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 (TRAC)
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 (TRAC)
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 (TRAC)
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.2 (TRAC)
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC)
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC)
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC)
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC)
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC)
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
oxide thickness

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 (TRAC)
internal pin pressure

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 (TRAC)
failure probability

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 (TRAC)
cladding hoop strain

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 (TRAC)
cladding surface temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 55 GWD/MTU PIN--PF 2.0 (TRAC)
oxide thickness

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC)
internal pin pressure

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC)
failure probability

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC)
cladding hoop strain

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC)
cladding surface temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC)
oxide thickness

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC)
internal pin pressure

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC)
failure probability

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC)
cladding hoop strain

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC)
cladding surface temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC)
oxide thickness

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)
internal pin pressure

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)
failure probability

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)
cladding hoop strain

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)
cladding surface temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)
fuel centerline temperature

OCONEE 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)
oxide thickness

K-3. SCDAP/RELAP5/MOD3 AND TRAC-PF1/MOD1 PLOTTED RESULTS FOR OCONEE

Table K-3. Description of SCDAP/RELAP5/MOD3 and TRAC-PF1/MOD1 plot variables for Ocone.

Variable	Description
SCDAP/RELAP5/MOD3 Variables:	
0-rktpow	Total core thermal power (watts)
0-rkfpow	Total core fission power (watts)
0-rkgapow	Total core decay heat (watts)
4040-cntrlvar	Collapsed reactor water level, hot channel (m)
550010000-p	Reactor upper head pressure (pa)
615010000-p	Pressurizer dome pressure (pa)
4100-cntrlvar	Total break flow (kg/s)
702000000-mflowj	Accumulator flow - total flow (kg/s)
700-acvlig	Accumulator liquid volume - total (m ³)
100000000-mflowj	Total intact loop hot leg flow (kg/s)
200000000-mflowj	Total broken loop hot leg flow (kg/s)
181010000-mflowj	Total intact loop cold leg flow (kg/s)
251000000-mflowj	Total broken loop cold leg flow (kg/s)
281000000-mflowj	Total intact loop cold leg flow (kg/s)
150010000-mflowj	Hot channel flow at the core midplane (kg/s)
571040000-voidg	Broken loop downcomer void fraction
570040000-voidg	Intact loop downcomer void fraction
0-dt	Time step size (s)
TRAC-PF1/MOD1 Plot Variables:	
RPOWER0010001	Total core thermal power (watts)
CORELEVEL	Collapsed reactor water level, core average (m)
P0770001	Pressurizer dome pressure (pa)
PUP0010001	Reactor upper head pressure (pa)
MFLOWTOTBRK	Total break flow (kg/s)
MFLOWACCTOT	Total accumulator (kg/s)
ACQLIQTOTINT	Accumulator liquid volume - total intact loop (m ³)
MFLOW0100001	Total intact loop hot leg flow (kg/s)
MFLOW0200001	Total broken loop hot leg flow (kg/s)
MFLOW0140001	Total intact loop cold leg flow (kg/s)
MFLOW0240001	Total broken loop cold leg flow (kg/s)
MFLOW0340001	Total intact loop cold leg flow (kg/s)
MFLOWTOT010701	Hot channel flow at the core midplane (kg/s)
ALPHA0010719	Broken loop downcomer void fraction at the core midplane elevation
ALPHA0010722	Intact loop downcomer void fraction at the core midplane elevation
DELT0000001	Time step size (s)

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
core thermal power

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
collapsed reactor water level

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
pressures

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
total break flow

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
total accumulator flow

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
accumulator liquid volume (m3)

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
hot leg flows

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
cold leg flows

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
hot channel core flow

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
bl downcomer void fractions

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
il downcomer void fractions

OCONEE 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
time step size

Appendix L

Plots for the Timing Analysis of PWR Fuel Pin Failures for Seabrook

APPENDIX L

PLOTS FOR THE TIMING ANALYSIS OF PWR FUEL PIN FAILURES FOR SEABROOK

Appendix L contains the plotted results for the timing analysis of PWR fuel pin failures for the Seabrook reactor. Section L-1 contains the SCDAP/RELAP5/MOD3 plots of total core power, collapsed reactor water level, reactor upper head and pressurizer dome pressures, containment pressure, fission product release, internal pin pressures, fuel centerline temperatures, cladding surface temperatures, hoop strains, total break flow, accumulator flow, accumulator liquid volume, hot leg flows, cold leg flows, hot channel core flow, downcomer void fractions, mass error, time step size, and cpu time for the nine accident scenarios. Section L-2 contains the FRAP-T6 plots of failure probability, internal pin pressure, cladding hoop strain, cladding surface temperature, fuel centerline temperature, and oxide thickness for the nine accident scenarios with peaking factors of 2.232, 2.2, 2.0, and 1.8 and burnups of 50, 35, 20, and 5 GWd/MTU and using SCDAP/RELAP5/MOD3 thermal-hydraulic boundary condition data. For the 100% design basis accident (DBA) case, plots of results obtained using TRAC-PF1/MOD1 thermal-hydraulic boundary condition data are also included. Section L-3 contains plots comparing TRAC-PF1/MOD1 and SCDAP/RELAP5/MOD3 results for the 100% DBA case for the following variables: core thermal power, collapsed reactor water level, pressurizer dome and reactor upper head pressures, total break flow, accumulator flow, accumulator liquid volume, hot leg flow, cold leg flow, hot channel core flow, downcomer void fractions, and time step size. Tables L-1, L-2, and L-3 provide a listing of the plot variables.

L-1. SCDAP/RELAP5/MOD3 PLOTTED RESULTS FOR SEABROOK

Table L-1. Description of SCDAP/RELAP5/MOD3 plot variables for Seabrook.

Variable	Description
0-rktpow	Total core thermal power (W)
0-rkfipow	Total core fission power (W)
0-rkgapow	Total core decay heat (W)
400-cntrlvar	Hot channel collapsed reactor water level for Seabrook (m)
403-cntrlvar	Core average collapsed reactor water level for Seabrook (m)
128010000-p	Reactor upper head pressure for Seabrook (Pa)
620010000-p	Pressurizer dome pressure for Seabrook (Pa)
670010000-p	Containment pressure for Seabrook (Pa)
0-bgtfprs	Soluble fission product release rate (kg/s)
0-bgtfprn	Insoluble fission product release rate (kg/s)
1-pgas	Average-burnup fuel pin internal pressure (Pa)
2-pgas	Low-burnup fuel pin internal pressure (Pa)
3-pgas	High-burnup fuel pin internal pressure (Pa)
1nn02-cadct	Low-burnup fuel pin centerline temperature for node nn (K)
1nn03-cadct	High-burnup fuel pin centerline temperature for node nn (K)
14nn02-cadct	Low-burnup fuel pin cladding temperature for node nn (K)
14nn03-cadct	High-burnup fuel pin cladding temperature for node nn (K)
n02-hoop	Low-burnup fuel pin cladding hoop strain for node n (dimensionless)
n03-hoop	High-burnup fuel pin cladding hoop strain for node n (dimensionless)
410-cntrlvar	Total break flow (kg/s)
704010000-mflowj	Accumulator flow for the Seabrook broken loop (kg/s)
702010000-mflowj	Accumulator flow for the Seabrook intact loop (kg/s)
704-acvlig	Accumulator liquid volume for the Seabrook broken loop (m ³)
702-acvlig	Accumulator liquid volume for the Seabrook intact loop (m ³)
400010000-mflowj	Hot leg flow for the Seabrook broken loop (kg/s)
200010000-mflowj	Hot leg flow for the Seabrook intact loop (kg/s)
453010000-mflowj	Cold leg flow for the Seabrook broken loop (kg/s)
253010000-mflowj	Cold leg flow for the Seabrook intact loop (kg/s)
15n010000-mflowj	Hot channel flows for n = 1, 3, 5, 7, and 9 for Seabrook (kg/s)

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
core thermal power

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
collapsed reactor water level

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
pressures

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
containment pressure

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
fission product release rate

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
internal pin pressures

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
fuel centerline temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
cladding surface temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
hoop strains for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
total break flow

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
accumulator flows

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
accumulator liquid volume (m3)

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
hot leg flows

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
cold leg flows

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
hot channel core flow

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
bl downcomer void fractions

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
il downcomer void fractions

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
mass error

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
time step size

W 4-LOOP (SEABROOK) 100% DBA LOCA PIN FAILURE
cpu time

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
core thermal power

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
collapsed reactor water level

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
pressures

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
containment pressure

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
fission product release rate

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
internal pin pressures

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
fuel centerline temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
cladding surface temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
hoop strains for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
total break flow

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
accumulator flows

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
accumulator liquid volume (m3)

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
hot leg flows

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
cold leg flows

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
hot channel core flow

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
bl downcomer void fractions

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
il downcomer void fractions

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
mass error

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
time step size

W 4-LOOP (SEABROOK) 90% DBA LOCA PIN FAILURE
cpu time

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
core thermal power

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
collapsed reactor water level

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
pressures

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
containment pressure

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
fission product release rate

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
internal pin pressures

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
fuel centerline temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
cladding surface temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
hoop strains for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
bl downcomer void fractions

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
il downcomer void fractions

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
mass error

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
time step size

W 4-LOOP (SEABROOK) 75% DBA LOCA PIN FAILURE
cpu time

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
core thermal power

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
collapsed reactor water level

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
pressures

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
containment pressure

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
fission product release rate

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
internal pin pressures

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
fuel centerline temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
cladding surface temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
hoop strains for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
total break flow

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
accumulator flows

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
accumulator liquid volume (m3)

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
hot leg flows

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
cold leg flows

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
hot channel core flow

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
bl downcomer void fractions

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
il downcomer void fractions

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
mass error

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
time step size

W 4-LOOP (SEABROOK) 50% DBA LOCA PIN FAILURE
cpu time

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
core thermal power

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
collapsed reactor water level

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
pressures

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
containment pressure

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
fission product release rate

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
internal pin pressures

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
fuel centerline temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
fuel centerline temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
cladding surface temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
cladding surface temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
hoop strains for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
hoop strains for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
bl downcomer void fractions

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
il downcomer void fractions

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
mass error

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
time step size

W 4-LOOP (SEABROOK) 100% DBA LOCA, PUMP TRIP
cpu time

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
core thermal power

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
collapsed reactor water level

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
pressures

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
containment pressure

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
fission product release rate

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
internal pin pressures

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
fuel centerline temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
fuel centerline temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
cladding surface temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
cladding surface temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
hoop strains for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
hoop strains for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
total break flow

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
accumulator flows

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
accumulator liquid volume (m3)

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
hot leg flows

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
cold leg flows

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
hot channel core flow

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
bl downcomer void fractions

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
il downcomer void fractions

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
mass error

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
time step size

W 4-LOOP (SEABROOK) 6 in. SB LOCA PIN FAILURE
cpu time

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
core thermal power

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
collapsed reactor water level

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
pressures

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
containment pressure

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
fission product release rate

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
internal pin pressures

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
fuel centerline temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
fuel centerline temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
cladding surface temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
cladding surface temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
hoop strains for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
hoop strains for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
total break flow

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
total ECCS flows

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
broken loop pumped ECCS flows

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
intact loop pumped ECCS flows

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
accumulator flows

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
accumulator liquid volume (m3)

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
hot leg flows

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
cold leg flows

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
hot channel core flow

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
bl downcomer void fractions

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
il downcomer void fractions

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS
mass error

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS

W 4-LOOP (SEABROOK) 100% DBA LPF, PUMPED ECCS

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
fuel centerline temperatures for 5 GWD/MTU pin

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
fuel centerline temperatures for 50 GWD/MTU pin

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
cladding surface temperatures for 5 GWD/MTU pin

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
cladding surface temperatures for 50 GWD/MTU pin

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
hoop strains for 5 GWD/MTU pin

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
hoop strains for 50 GWD/MTU pin

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
bl downcomer void fractions

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
il downcomer void fractions

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
mass error

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
time step size

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
cpu time

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
broken loop pumped ECCS flows

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
intact loop pumped ECCS flows

W 4-LOOP 100% DBA LPF, PUMP TRIP WITH ECCS
total ECCS flows

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
fuel centerline temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
fuel centerline temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
cladding surface temperatures for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
cladding surface temperatures for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
hoop strains for 5 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
hoop strains for 50 GWD/MTU pin

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
total break flow

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
accumulator flows

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
accumulator liquid volume (m3)

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
hot leg flows

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
cold leg flows

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
hot channel core flow

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
bl downcomer void fractions

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
il downcomer void fractions

W 4-LOOP (SEABROOK) 6 in SBLOCA WITH ECCS
mass error

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
time step size

W 4-LOOP (SEABROOK) 6 in SBLOCA WITH ECCS
cpu time

W 4-LOOP (SEABROOK) 6 in. SBLOCA WITH ECCS
broken loop pumped ECCS flows

W 4-LOOP (SEABROOK) 6 in SBLOCA WITH ECCS
intact loop pumped ECCS flows

W 4-LOOP (SEABROOK) 6 in SBLOCA WITH ECCS
total ECCS flows

L-2. FRAP-T6 PLOTTED RESULTS FOR SEABROOK

Table L-2. Description of FRAP-T6 plot variables for Seabrook.

Variable	Description
0-ffr	Failure probability
0-prspln	Internal pin pressure (psia, Pa)
n-cladhsn	Cladding hoop strain at axial node n
n-cladote	Cladding surface temperature at axial node n (°F, K)
n-ctemp	Fuel centerline temperature at axial node n (°F, K)
n-ooxtn	Oxide thickness at axial node n (in., mm)

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 32
internal pin pressure

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 32
cladding hoop strain

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 32
cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 32
fuel centerline temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 32
oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2 2
internal pin pressure

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2 2
failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2 2
cladding hoop strain

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2 2
cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2 2
fuel centerline temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2 2
oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 2
internal pin pressure

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 2
failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 2
cladding hoop strain

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 2
cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 2
fuel centerline temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2 2
oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2 2
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2 2
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2 2
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2 2
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2 2
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2 2
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1 8
internal pin pressure

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1 8
failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1 8
cladding hoop strain

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1 8
cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1 8
fuel centerline temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1 8
oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 18
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 18
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 18
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 18
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 18
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 18
oxide thickness

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 22
internal pin pressure

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 22
failure probability

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 22
cladding hoop strain

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 22
cladding surface temperature

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 22
fuel centerline temperature

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 22
oxide thickness

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 90%DBA 50 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 1 8
internal pin pressure

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 1 8
failure probability

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 1 8
cladding hoop strain

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 1 8
cladding surface temperature

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 1 8
fuel centerline temperature

SEABROOK 90%DBA 35 GWD/MTU PIN--PF 1 8
oxide thickness

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 90%DBA 20 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 90%DBA 5 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2 32
internal pin pressure

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2 32
failure probability

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2 32
cladding hoop strain

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2 32
cladding surface temperature

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2 32
fuel centerline temperature

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2 32
oxide thickness

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2 0
internal pin pressure

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2 0
failure probability

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2 0
cladding hoop strain

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2 0
cladding surface temperature

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2 0
fuel centerline temperature

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 2 0
oxide thickness

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 75%DBA 50 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 75%DBA 35 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 75%DBA 20 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 75%DBA 5 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2 32
internal pin pressure

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2 32
failure probability

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2 32
cladding hoop strain

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2 32
cladding surface temperature

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2 32
fuel centerline temperature

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2 32
oxide thickness

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2 2
internal pin pressure

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2 2
failure probability

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2 2
cladding hoop strain

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2 2
cladding surface temperature

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2 2
fuel centerline temperature

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2 2
oxide thickness

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.2
internal pin pressure

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.2
failure probability

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.2
cladding hoop strain

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.2
cladding surface temperature

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.2
fuel centerline temperature

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.2
oxide thickness

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2 0
internal pin pressure

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2 0
failure probability

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2 0
cladding hoop strain

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2 0
cladding surface temperature

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2 0
fuel centerline temperature

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 2 0
oxide thickness

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.0
internal pin pressure

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.0
failure probability

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.0
cladding hoop strain

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.0
cladding surface temperature

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.0
fuel centerline temperature

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 2.0
oxide thickness

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 1 8
internal pin pressure

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 1 8
failure probability

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 1 8
cladding hoop strain

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 1 8
cladding surface temperature

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 1 8
fuel centerline temperature

SEABROOK 50%DBA 50 GWD/MTU PIN--PF 1 8
oxide thickness

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 50%DBA 35 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 50%DBA 20 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 1.8
internal pin pressure

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 1.8
failure probability

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 1.8
cladding hoop strain

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 1.8
cladding surface temperature

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 1.8
fuel centerline temperature

SEABROOK 50%DBA 5 GWD/MTU PIN--PF 1.8
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/TRIPSEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/TRIP
internal pin pressure

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/TRIPSEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/TRIP
cladding hoop strain

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/TRIPSEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/TRIP
fuel centerline temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 32 W/TRIPSEABROOK 100%DBA 35 GWD/MTU PIN--PF2 32 W/TRIP
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 32 W/TRIPSEABROOK 100%DBA 35 GWD/MTU PIN--PF2 32 W/TRIP
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 32 W/TRIPSEABROOK 100%DBA 35 GWD/MTU PIN--PF2 32 W/TRIP
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.32 W/TRIPSEABROOK 100%DBA 20 GWD/MTU PIN--PF2.32 W/TRIP
internal pin pressure

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.32 W/TRIPSEABROOK 100%DBA 20 GWD/MTU PIN--PF2.32 W/TRIP
cladding hoop strain

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.32 W/TRIPSEABROOK 100%DBA 20 GWD/MTU PIN--PF2.32 W/TRIP
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/TRIP SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/TRIP

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/TRIP SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/TRIP

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/TRIP SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/TRIP

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/TRIP SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/TRIP
internal pin pressure failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/TRIP SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/TRIP
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/TRIP SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/TRIP
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/TRIP SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/TRIP
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/TRIP SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/TRIP
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/TRIP SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/TRIP
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/TRIP SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/TRIP
internal pin pressure failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/TRIP SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/TRIP
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/TRIP SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/TRIP
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/TRIP
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/TRIP
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/TRIP
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/TRIP
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/TRIP
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/TRIP
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/TRIP SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/TRIP
internal pin pressure failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/TRIP SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/TRIP
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/TRIP SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/TRIP
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/TRIP SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/TRIP
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/TRIP SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/TRIP
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/TRIP SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/TRIP
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/TRIP SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/TRIP
internal pin pressure failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/TRIP SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/TRIP
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/TRIP SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/TRIP
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/TRIP
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/TRIP
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/TRIP
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/TRIP
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/TRIP
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/TRIP
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/TRIP internal pin pressure SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/TRIP failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/TRIP cladding hoop strain SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/TRIP cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/TRIP fuel centerline temperature SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/TRIP oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/TRIP SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/TRIP
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/TRIP SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/TRIP
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/TRIP SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/TRIP
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/TRIP SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/TRIP
internal pin pressure failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/TRIP SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/TRIP
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/TRIP SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/TRIP
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1 8 W/TRIP
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1 8 W/TRIP
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1 8 W/TRIP
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1 8 W/TRIP
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1 8 W/TRIP
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1 8 W/TRIP
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/ECCS SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/ECCS

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/ECCS SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/ECCS

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/ECCS SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/ECCS

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/ECCS

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/ECCS

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/ECCS

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/ECCS SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/ECCS

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/ECCS SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/ECCS

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/ECCS SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/ECCS

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/ECCS SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/ECCS
internal pin pressure failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/ECCS SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/ECCS
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/ECCS SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/ECCS
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/ECCS SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/ECCS
internal pin pressure failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/ECCS SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/ECCS
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/ECCS SEABROOK 100%DBA 50 GWD/MTU PIN--PF2 2 W/ECCS
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 2 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/ECCS
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 2 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/ECCS
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 2 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/ECCS
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/ECCS SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/ECCS

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/ECCS SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/ECCS

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/ECCS SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/ECCS

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/ECCS

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/ECCS

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/ECCS

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/ECCS

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/ECCS

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/ECCS

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/ECCS SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/ECCS

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/ECCS SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/ECCS

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/ECCS SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/ECCS

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 0 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 0 W/ECCS
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 0 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 0 W/ECCS
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 0 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 0 W/ECCS
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/ECCS SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/ECCS

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/ECCS SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/ECCS

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/ECCS SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/ECCS

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/ECCS
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/ECCS
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/ECCS
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/ECCS
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/ECCS
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/ECCS
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/ECCS internal pin pressure

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/ECCS cladding hoop strain

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/ECCS fuel centerline temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/ECCS
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/ECCS
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/ECCS SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/ECCS
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/ECCS
internal pin pressure

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/ECCS
failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/ECCS
cladding hoop strain

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/ECCS
cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/ECCS
fuel centerline temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/ECCS
oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ECCS
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ECCS
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ECCS
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ECCS
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ECCS
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ECCS
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/E&PTSEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/E&PT

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/E&PTSEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/E&PT

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/E&PTSEABROOK 100%DBA 50 GWD/MTU PIN--PF2.32 W/E&PT

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/E&PSEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/E&PT

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/E&PSEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/E&PT

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/E&PSEABROOK 100%DBA 35 GWD/MTU PIN--PF2.32 W/E&PT

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/E&P SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.32 W/E&PT

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/E&P SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/E&PT

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/E&P SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 32 W/E&PT

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/E&PT SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/E&PT
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/E&PT SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/E&PT
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/E&PT SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.32 W/E&PT
fuel centerline temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/E&PT SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/E&PT
internal pin pressure

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/E&PT SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/E&PT
cladding hoop strain

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/E&PT SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/E&PT
fuel centerline temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/E&PT SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/E&PT
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/E&PT SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/E&PT
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/E&PT SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.2 W/E&PT
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/E&PT SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/E&PT
internal pin pressure

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/E&PT SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/E&PT
cladding hoop strain

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/E&PT SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/E&PT
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/E&PT internal pin pressure SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/E&PT failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/E&PT cladding hoop strain SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/E&PT cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/E&PT fuel centerline temperature SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/E&PT oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/E&PT SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/E&PT

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/E&PT SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/E&PT

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/E&PT SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/E&PT

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/E&PT SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/E&PT
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/E&PT SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/E&PT
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/E&PT SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/E&PT
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.0 W/E&PT SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.0 W/E&PT
internal pin pressure failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.0 W/E&PT SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.0 W/E&PT
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.0 W/E&PT SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.0 W/E&PT
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/E&PT
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/E&PT
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/E&PT
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/E&PT
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/E&PT
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.0 W/E&PT
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/E&PT SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/E&PT
internal pin pressure failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/E&PT SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/E&PT
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/E&PT SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/E&PT
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/E&PT SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/E&PT
internal pin pressure

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/E&PT SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/E&PT
cladding hoop strain

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/E&PT SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/E&PT
fuel centerline temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/E&PT SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/E&PT
internal pin pressure failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/E&PT SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/E&PT
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/E&PT SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/E&PT
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ES&PT SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ES&PT

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ES&PT SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ES&PT

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ES&PT SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/ES&PT

SEABROOK 100%DBA 50GWD/MTU PIN-PF2.32 W/EMON SEABROOK 100%DBA 50GWD/MTU PIN-PF2.32 W/EMON

SEABROOK 100%DBA 50GWD/MTU PIN-PF2.32 W/EMON SEABROOK 100%DBA 50GWD/MTU PIN-PF2.32 W/EMON

SEABROOK 100%DBA 50GWD/MTU PIN-PF2.32 W/EMON SEABROOK 100%DBA 50GWD/MTU PIN-PF2.32 W/EMON

SEABROOK 100%DBA 35GWD/MTU PIN-PF2.32 W/EMON SEABROOK 100%DBA 35GWD/MTU PIN-PF2.32 W/EMON

SEABROOK 100%DBA 35GWD/MTU PIN-PF2.32 W/EMON SEABROOK 100%DBA 35GWD/MTU PIN-PF2.32 W/EMON

SEABROOK 100%DBA 35GWD/MTU PIN-PF2.32 W/EMON SEABROOK 100%DBA 35GWD/MTU PIN-PF2.32 W/EMON

SEABROOK 100%DBA 20GWD/MTU PIN-PF2 32 W/EMON SEABROOK 100%DBA 20GWD/MTU PIN-PF2 32 W/EMON

SEABROOK 100%DBA 20GWD/MTU PIN-PF2 32 W/EMON SEABROOK 100%DBA 20GWD/MTU PIN-PF2 32 W/EMON

SEABROOK 100%DBA 20GWD/MTU PIN-PF2 32 W/EMON SEABROOK 100%DBA 20GWD/MTU PIN-PF2 32 W/EMON

SEABROOK 100%DBA 5GWD/MTU PIN-PF2.32 W/EMON
internal pin pressure

SEABROOK 100%DBA 5GWD/MTU PIN-PF2.32 W/EMON
failure probability

SEABROOK 100%DBA 5GWD/MTU PIN-PF2.32 W/EMON
cladding hoop strain

SEABROOK 100%DBA 5GWD/MTU PIN-PF2.32 W/EMON
cladding surface temperature

SEABROOK 100%DBA 5GWD/MTU PIN-PF2.32 W/EMON
fuel centerline temperature

SEABROOK 100%DBA 5GWD/MTU PIN-PF2.32 W/EMON
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/EMON SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/EMON
internal pin pressure failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/EMON SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/EMON
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/EMON SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.2 W/EMON
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 2 W/EMON SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 2 W/EMON
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 2 W/EMON SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 2 W/EMON
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 2 W/EMON SEABROOK 100%DBA 35 GWD/MTU PIN--PF2 2 W/EMON
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/EMON SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/EMON

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/EMON SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/EMON

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/EMON SEABROOK 100%DBA 20 GWD/MTU PIN--PF2.2 W/EMON

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/EMON internal pin pressure SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/EMON failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/EMON cladding hoop strain SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/EMON cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/EMON fuel centerline temperature SEABROOK 100%DBA 5 GWD/MTU PIN--PF2.2 W/EMON oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/EMON SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/EMON
internal pin pressure

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/EMON SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/EMON
cladding hoop strain

SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/EMON SEABROOK 100%DBA 50 GWD/MTU PIN--PF2.0 W/EMON
fuel centerline temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/EMONSEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/EMON
 internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/EMONSEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/EMON
 cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/EMONSEABROOK 100%DBA 35 GWD/MTU PIN--PF2.0 W/EMON
 fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/EMONSEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/EMON
internal pin pressure failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/EMONSEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/EMON
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/EMONSEABROOK 100%DBA 20 GWD/MTU PIN--PF2 0 W/EMON
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2 0 W/EMON SEABROOK 100%DBA 5 GWD/MTU PIN--PF2 0 W/EMON
internal pin pressure failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2 0 W/EMON SEABROOK 100%DBA 5 GWD/MTU PIN--PF2 0 W/EMON
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF2 0 W/EMON SEABROOK 100%DBA 5 GWD/MTU PIN--PF2 0 W/EMON
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/EMON SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/EMON
internal pin pressure failure probability

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/EMON SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/EMON
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/EMON SEABROOK 100%DBA 50 GWD/MTU PIN--PF1.8 W/EMON
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/EMON SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/EMON
internal pin pressure failure probability

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/EMON SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/EMON
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/EMON SEABROOK 100%DBA 35 GWD/MTU PIN--PF1.8 W/EMON
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/EMON SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/EMON
internal pin pressure failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/EMON SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/EMON
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/EMON SEABROOK 100%DBA 20 GWD/MTU PIN--PF1.8 W/EMON
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/EMON internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/EMON cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/EMON cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/EMON fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF1.8 W/EMON oxide thickness

SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK SMBRK 20 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK SMBRK 20 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK SMBRK 20 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK SMBRK 20 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK SMBRK 20 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK SMBRK 20 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32
internal pin pressure

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32
failure probability

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32
cladding hoop strain

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32
cladding surface temperature

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32
fuel centerline temperature

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32
oxide thickness

SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32 W/ECCS SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32 W/ECCS SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32 W/ECCS SEABROOK SMBRK 50 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32 W/ECCS SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32 W/ECCS SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32 W/ECCS SEABROOK SMBRK 35 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 20 GWD/MTU PIN--PF 2 32 W/ECCS SEABROOK SMBRK 20 GWD/MTU PIN--PF 2 32 W/ECCS

SEABROOK SMBRK 20 GWD/MTU PIN--PF 2 32 W/ECCS SEABROOK SMBRK 20 GWD/MTU PIN--PF 2 32 W/ECCS

SEABROOK SMBRK 20 GWD/MTU PIN--PF 2 32 W/ECCS SEABROOK SMBRK 20 GWD/MTU PIN--PF 2 32 W/ECCS

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK SMBRK 5 GWD/MTU PIN--PF 2.32 W/ECCS

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32 (TRAC)SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32 (TRAC)
internal pin pressure

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32 (TRAC)SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32 (TRAC)
cladding hoop strain

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32 (TRAC)SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.32 (TRAC)
fuel centerline temperature

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32 (TRAC)SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32 (TRAC)SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32 (TRAC)SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.32 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN---PF 2.32 (TRAC)SEABROOK 100%DBA 20 GWD/MTU PIN---PF 2.32 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN---PF 2.32 (TRAC)SEABROOK 100%DBA 20 GWD/MTU PIN---PF 2.32 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN---PF 2.32 (TRAC)SEABROOK 100%DBA 20 GWD/MTU PIN---PF 2.32 (TRAC)

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32 (TRAC) SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32 (TRAC)

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32 (TRAC) SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32 (TRAC)

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32 (TRAC) SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.32 (TRAC)

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2 (TRAC) SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2 (TRAC)

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2 (TRAC) SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2 (TRAC)

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2 (TRAC) SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.2 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN---PF 2.2 (TRAC) SEABROOK 100%DBA 35 GWD/MTU PIN---PF 2.2 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN---PF 2.2 (TRAC) SEABROOK 100%DBA 35 GWD/MTU PIN---PF 2.2 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN---PF 2.2 (TRAC) SEABROOK 100%DBA 35 GWD/MTU PIN---PF 2.2 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC) SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC)
internal pin pressure failure probability

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC) SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC)
cladding hoop strain cladding surface temperature

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC) SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.2 (TRAC)
fuel centerline temperature oxide thickness

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.2 (TRAC)
oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0 (TRAC) SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0 (TRAC)

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0 (TRAC) SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0 (TRAC)

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0 (TRAC) SEABROOK 100%DBA 50 GWD/MTU PIN--PF 2.0 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC) SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC) SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC) SEABROOK 100%DBA 35 GWD/MTU PIN--PF 2.0 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC) SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC) SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC) SEABROOK 100%DBA 20 GWD/MTU PIN--PF 2.0 (TRAC)

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)

internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)

failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)

cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)

cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)

fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 2.0 (TRAC)

oxide thickness

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1.8 (TRAC) SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1.8 (TRAC)

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1.8 (TRAC) SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1.8 (TRAC)

SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1.8 (TRAC) SEABROOK 100%DBA 50 GWD/MTU PIN--PF 1.8 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8 (TRAC) SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8 (TRAC) SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8 (TRAC)

SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8 (TRAC) SEABROOK 100%DBA 35 GWD/MTU PIN--PF 1.8 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8 (TRAC) SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8 (TRAC) SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8 (TRAC)

SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8 (TRAC) SEABROOK 100%DBA 20 GWD/MTU PIN--PF 1.8 (TRAC)

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 1 8 (TRAC)
internal pin pressure

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 1 8 (TRAC)
failure probability

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 1 8 (TRAC)
cladding hoop strain

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 1 8 (TRAC)
cladding surface temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 1 8 (TRAC)
fuel centerline temperature

SEABROOK 100%DBA 5 GWD/MTU PIN--PF 1 8 (TRAC)
oxide thickness

L-3. SCDAP/RELAP5/MOD3 AND TRAC-PF1/MOD1 PLOTTED RESULTS FOR SEABROOK

Table L-3. Description of SCDAP/RELAP5/MOD3 and TRAC-PF1/MOD1 plot variables for Seabrook.

Variable	Description
SCDAP/RELAP5/MOD3 Variables:	
0-rktpow	Total core thermal power (W)
0-rkfipow	Total core fission power (W)
0-rkgapow	Total core decay heat (W)
400-cntrlvar	Hot channel collapsed reactor water level (m)
403-cntrlvar	Core-average collapsed reactor water level (m)
128010000-p	Reactor upper head pressure (Pa)
620010000-p	Pressurizer dome pressure (Pa)
410-cntrlvar	Total break flow (kg/s)
704010000-mflowj	Accumulator flow for the broken loop (kg/s)
702010000-mflowj	Total accumulator flow for the intact loop (kg/s)
702-acvlig	Accumulator liquid volume for the intact loop (m ³)
200010000-mflowj	Total hot leg flow for the intact loop (kg/s)
253010000-mflowj	Total cold leg flow for the intact loop (kg/s)
155010000-mflowj	Hot channel flows at the core midplane (kg/s)
1060n0000-voidg	Broken loop downcomer void fraction for node n at the core midplane elevation
1860n0000-voidg	Intact loop downcomer void fraction for node n at the core midplane elevation
0-dt	Time step size (s)
TRAC-PF1/MOD1 Variables:	
RPOWER0990001	Total core thermal power (W)
CORELEVEL	Core-average collapsed reactor water level (m)
PUP0990001	Reactor upper head pressure (Pa)
P078001	Pressurizer dome pressure (Pa)
MFLOWTOTBRK	Total break flow (kg/s)
MFLOW0440002	Accumulator flow for the broken loop (kg/s)
MFLOWTOTINTAC	Total accumulator flow for the intact loop (kg/s)
ACQLIQTOTINT	Accumulator liquid volume for the intact loop (m ³)
MFLOWINTHLEG	Total hot leg flow for the intact loop (kg/s)
MFLOWINTCLEG	Total cold leg flow for the intact loop (kg/s)
MFLOWTOT990801	Hot channel flows at the core midplane (kg/s)
ALPHA0990814	Broken loop downcomer void fraction for node n at the core midplane elevation
ALPHA0990813	Intact loop downcomer void fraction for node n at the core midplane elevation
DELT0000001	Time step size (s)

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
core thermal power

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
collapsed reactor water level

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
pressures

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
total break flow

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
accumulator flows

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
intact loop accumulator liquid volume

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
total intact hot leg flow

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
total intact loop cold leg flow

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
hot channel core flow

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
bl downcomer void fractions

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
il downcomer void fractions

SEABROOK 100% DBA, TRAC-PF1 VS. RELAP5/MOD3
time step size