

**Table 14.5-1**  
**TRANSIENT ANALYSES POWER/FLOW STATE POINTS**  
**(100P = 3458 MWt, 100F = 102.5E6 lbm/hr)**

[illegible]

**Table 14.5-2**  
**TRANSIENT ANALYSES INITIAL CONDITIONS**  
(Power Uprate)

Parameter	GE UFSAR Analysis (at percent power)	Framatome ANP Reload Analysis
Thermal Power, MWt	3458 (100%) / 3527 (102%)	3458 (100%)
Core Flow, Mlb/hr	102.5	102.5
Core Flow Range (% of current rated)	81-105	81-105
Vessel Steam Flow and FW flow, Mlb/hr	14.24 (100%) / 14.57 (102%)	14.15
Analysis Dome Pressure, psia	1055 (100%) / 1070 (102%)	1050
Analysis Turbine Pressure, psia	995 (100%) / 1010 (102%)	985
Feedwater Temperature, °F	382 (100%) / 384 (102%)	382
Turbine Bypass Capacity	25.2% of rated vessel steam flow	
Number of MSRVs	13	13
MSRV type	Target Rock	Target Rock
Opening response of relief functions	0.15 s	0.15 s
Opening delay of relief functions	0.4 s	0.45s
MSRV Capacity, % rated steam flow (Based on 1090 psig setpoint)	73.8% <sup>i</sup> (12 valves)	73.8% <sup>i</sup> (12 valves)
MSRV Setpoint, (number of valves @ psig) (+3% setpoint tolerance included)	4 @ 1174 <sup>ii</sup> 4 @ 1185 5 @ 1195	4 @ 1169 <sup>ii</sup> 4 @ 1179 4 @ 1190
MCPR Safety Limit	1.10	Cycle Specific
Recirculation Flow Control	VFD Flow Control	VFD Flow Control
Core Average Gap Conductance (Btu/s-sq. ft -Deg F)	0.3972	Case Dependent
High Neutron Flux Scram Setpoint	125.4% of rated power	125.4% of rated power
High Pressure Scram Setpoint, psig	1106	1101
High Pressure ATWS-RPT setpoint, psig	1153	1177
Reactor L8 Water Level, in avz <sup>iii</sup>	588	588
Reactor L3 Water Level, in avz <sup>iii</sup>	518	518
Reactor L2 Water Level, in avz <sup>iii</sup>	448	448
Reactor L1 Water Level, in avz <sup>iii</sup>	372.5	372.5

- i Referenced to rated vessel steam flow at 3458 MWt. The absolute MSRV capacity at 1090 psig does not change with power uprate.
- ii Considered only 3 out of 4 due to 1 MSRV-OOS
- iii Above vessel zero