GOALS: 1)Ensure MSPI applicability boundary is clearly defined and implemented. 2) Ensure MSPI is correctly calculated. 3) Evaluate the effectiveness of the indicator.		
	Who	Inspection Requirements
General Model Validation		
1	Research or NRR	Validate the NEI spreadsheet and evaluate the need for an internal tool.
Plant Specific Model Validation - Active Component Identification		
2	SRI/RI	Audit two of the systems covered by the pilot performance indicator (one support cooling and one primary system) **[page 2, Section PWRs]**, identify active components whose failure will fail the train; compare with the licensee's list of active components, and discuss discrepancies with the SRA. For the two audited systems provide a list of active **[page F-7]** components to Research and SRA.
3	Research	Ensure that all active components are modeled in the SPAR models.
4	SRI/RI	Ensure all active components are accounted for in the licensee's version of the NEI spreadsheet
Plant Specific Model Validation - Unavailability Boundary Definition		
5	SRI/RI	Ensure final guidance on system boundaries for determining unavailability is correctly implemented for the purpose of calculating the unavailability index **[page 4, Clarifying notes, System/component Interface Boundaries].**
Plant Specific Model Validation - Success Criteria		
6	SRI/RI	Review aggregate PRA success criteria **[page 4, clarifying notes, success criteria]** and determine if it adequately bounds the basic safety functions. SRIs to provide success criteria to SRA.
7	SRA	Verify that the PRA functional success criteria for the MSPI is consistent with Phase 2 SDP notebook basis and the SPAR model assumptions.
Plant Specific Model Validation - Data Entry		

Attachment 7

8	SRI/RI	As discussed in the guidance, confirm appropriate baseline values are entered into the NEI spreadsheet. • Planned Unavailability - actual plant specific 3-year total planned unavailability for train for years 1999-2001 **[Appendix F, clarifying notes, baseline values].** • • Unplanned Unavailability - historical industry average for unavailability for years 1999 - 2001 **[Appendix F, Table 1]** • Baseline Unreliability - historical industry baseline calculated from unreliability mean values for each monitored component [demand failure, run/load failure, failure to meet mission time as applicable] in the system using industry average values **[Appendix F, Table 2]**.
9	SRI/RI	Confirm demand/failure data for active components for the most recent 12 quarters is correctly entered into the NEI spreadsheet to produce a Bayesian corrected component unreliability **[page F2-3]** • number of failures on demand during previous 12 quarters • total number of demands during previous 12 quarters • number of failures to run during previous 12 quarters • total number of run hours during previous 12 quarters
10	SRI/RI	Ensure actual unavailability data **[page F1]** is correctly entered into the spreadsheet. • Critical hours during previous 12 quarters • Unavailable hours during previous 12 quarters, while critical
11	Research	Ensure the maximum $FVur_c/UR_{pc}$ and $FVua_c/UA_{pc}$ values are correctly selected.
Plant Specific Model Validation - General Model Performance		

12	Research	Check sensitivity of the performance indicator to demand failures over full range of expected demands (one zero problem; and insensitive over range of expected demands problem)
13	All	Anything else necessary to assure that MSPI will provide a good indicator for included components.