

1Q/2013 ROP Performance Indicators Summary

Crystal River has been shut down since October 2009, Fort Calhoun has been shut down since April 2011, and San Onofre, Units 2 and 3, have been shut down since January 2012. Because the Unplanned Scrams with Complications (USwC) and Mitigating Systems Performance Index (MSPI) performance indicators (PIs) are heavily influenced by the operational status of the reactor, NRC staff has evaluated the validity of these PIs. Because the Crystal River and Fort Calhoun reactors have not been critical for at least six months, there have been no recent opportunities for a scram that would count in the USwC indicator. Similarly, the MSPI values can become skewed because of the very low number of critical hours. For these reasons, the staff has determined that these PIs no longer provide valid indications of performance. The shutdown conditions are also causing other indicators at these sites to be invalid, in accordance with NEI 99-02. The NRC and NEI are discussing generic PI validity criteria during the public ROP working group meetings.

Plants	IE 01	IE 03	IE 04	MS 05	MS 06	MS 07	MS 08	MS 09	MS 10	BI 01	BI 02	EP 01	EP 02	EP 03	OR 01	PR 01	PP 01
Arkansas Nuclear 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Arkansas Nuclear 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Beaver Valley 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Beaver Valley 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Braidwood 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Braidwood 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Browns Ferry 1	G	G	G	G	W	W	G	G	G	G	G	G	G	G	G	G	G
Browns Ferry 2	G	G	G	G	W	G	G	G	G	G	G	G	G	G	G	G	G
Browns Ferry 3	W	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Brunswick 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Brunswick 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Byron 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Byron 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Callaway	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Calvert Cliffs 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Calvert Cliffs 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Catawba 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Catawba 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Clinton																	

US NRC Reactor Oversight Process -- PI Summary

	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Columbia Generating Station	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Comanche Peak 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Comanche Peak 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Cooper	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Crystal River 3	N	N	N	G	N	N	N	N	N	N	N	G	G	G	G	G	G
D.C. Cook 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
D.C. Cook 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Davis-Besse	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Diablo Canyon 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Diablo Canyon 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Dresden 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Dresden 3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Duane Arnold	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Farley 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Farley 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Fermi 2	W	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
FitzPatrick	G	W	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Fort Calhoun	N	N	N	W	N	N	N	N	N	N	N	G	G	G	G	G	G
Ginna	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Grand Gulf 1	W	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Harris 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Hatch 1	G	G	G	G	G	G	G	G	G	G	G	G	G	U	G	G	G
Hatch 2	G	G	G	G	G	G	G	G	G	G	G	G	G	U	G	G	G
Hope Creek 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Indian Point 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Indian Point 3																	

US NRC Reactor Oversight Process -- PI Summary

	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
La Salle 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
La Salle 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Limerick 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Limerick 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
McGuire 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
McGuire 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Millstone 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Millstone 3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Monticello	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Nine Mile Point 1	W	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Nine Mile Point 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
North Anna 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
North Anna 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Oconee 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Oconee 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Oconee 3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Oyster Creek	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Palisades	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Palo Verde 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Palo Verde 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Palo Verde 3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Peach Bottom 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Peach Bottom 3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Perry 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	Y	G	G
Pilgrim 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Point Beach 1																	

US NRC Reactor Oversight Process -- PI Summary

	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Point Beach 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Prairie Island 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Prairie Island 2	G	G	G	G	W	G	G	G	G	G	G	G	G	G	G	G	G
Quad Cities 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Quad Cities 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
River Bend 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Robinson 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Saint Lucie 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Saint Lucie 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Salem 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Salem 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
San Onofre 2	N	N	N	G	N	N	N	N	N	N	N	G	G	G	G	G	G
San Onofre 3	N	N	N	G	N	N	N	N	N	N	N	G	G	G	G	G	G
Seabrook 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Sequoyah 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Sequoyah 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
South Texas 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
South Texas 2	G	G	G	G	G	G	G	G	G	N	G	G	G	G	G	G	G
Summer	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Surry 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Surry 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Susquehanna 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Susquehanna 2	G	G	W	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Three Mile Island 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Turkey Point 3	W	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Turkey Point 4																	

US NRC Reactor Oversight Process -- PI Summary

	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Vermont Yankee	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Vogtle 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Vogtle 2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Waterford 3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Watts Bar 1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Wolf Creek 1	G	G	G	G	W	G	G	G	G	G	G	G	G	G	G	G	G

Legend: R=Red W=White GTC=Greater Than Green I=Insufficient Data to Calculate PI U=Unique Design
 Y=Yellow G=Green T=Thresholds under development N=Not Applicable D=Discrepant

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|--|---|
| IE01 = Unplanned Scrams per 7000 Critical Hours | MS05 = Safety System Functional Failures |
| IE03 = Unplanned Power Changes | MS07 = High Pressure Injection System |
| MS06 = Emergency AC Power System | MS09 = Residual Heat Removal System |
| MS08 = Heat Removal System | BI01 = Reactor Coolant System Specific Activity |
| MS10 = Cooling Water Systems | EP01 = Drill/Exercise Performance |
| BI02 = Reactor Coolant System Leak | EP03 = Alert and Notification System |
| EP02 = ERD Drill Participation | PR01 = RETS/ODCM Radiological Effluent |
| OR01 = Occupational Exposure Control Effectiveness | PP01 = Protected Area Equipment |
| IE04 = Unplanned Scrams with Complications | |

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