

4Q/2012 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 | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Browns Ferry 2 | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Browns Ferry 3 | G | 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 | 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 |
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US NRC Reactor Oversight Process -- PI Summary

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| 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 | G | 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 | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Kewaunee | 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 |
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US NRC Reactor Oversight Process -- PI Summary

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| 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 | W | G | G |
| Pilgrim 1 | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Point Beach 1 | 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 |
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| Saint Lucie 1 | 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 |
| Salem 1 | 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 |
| San Onofre 2 | N | N | G | N | N | N | N | N | N | N | G | G | G | G | G | G |
| San Onofre 3 | N | N | G | N | N | N | N | N | N | N | N | G | G | G | G | G |
| Seabrook 1 | 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 |
| Sequoyah 2 | 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 |
| South Texas 2 | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Summer | 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 |
| Surry 2 | 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 |
| Susquehanna 2 | G | G | W | 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 |
| Turkey Point 3 | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G |
| Turkey Point 4 | 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 |
| Vogtle 1 | 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 |
| Waterford 3 | 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 |
| Wolf Creek 1 | G | G | G | G | W | G | G | G | G | G | G | G | G | G | G | G |

US NRC Reactor Oversight Process -- PI Summary

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

IE01 = Unplanned Scrams per 7000 Critical Hours
IE03 = Unplanned Power Changes
MS06 = Emergency AC Power System
MS08 = Heat Removal System
MS10 = Cooling Water Systems
BI02 = Reactor Coolant System Leak
EP02 = ERD Drill Participation
OR01 = Occupational Exposure Control Effectiveness
IE04 = Unplanned Scrams with Complications

MS05 = Safety System Functional Failures
MS07 = High Pressure Injection System
MS09 = Residual Heat Removal System
BI01 = Reactor Coolant System Specific Activity
EP01 = Drill/Exercise Performance
EP03 = Alert and Notification System
PR01 = RETS/ODCM Radiological Effluent
PP01 = Protected Area Equipment

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