

**1Q/2006 ROP Action Matrix Summary**

The assessment program collects information from inspections and performance indicators (PIs) in order to enable the agency to arrive at objective conclusions about the licensee's safety performance. Based on this assessment information, the NRC determines the appropriate level of agency response, including supplemental inspection and pertinent regulatory actions ranging from management meetings up to and including orders for plant shutdown. The Action Matrix Summary listed below reflects overall plant performance and is updated regularly to reflect inputs from the most recent performance indicators and inspection findings. [Physical Protection](#) information is not publicly available and the associated performance indicators and inspection findings are not integrated into the Action Matrix Summary.

Notes have been added to plants that are not in the licensee response column of the Action Matrix.

Licensee Response Column	Regulatory Response Column	Degraded Cornerstone Column	Multiple/Repetitive Degraded Cornerstone Column	Unacceptable Performance Column
<a href="#">Arkansas Nuclear 1</a>	<a href="#">Brunswick 2<sup>1</sup></a>	<a href="#">Kewaunee<sup>2</sup></a>	<a href="#">Perry 1<sup>3</sup></a>	
<a href="#">Arkansas Nuclear 2</a>	<a href="#">Columbia Generating Station<sup>4</sup></a>	<a href="#">Palo Verde 1<sup>5</sup></a>	<a href="#">Point Beach 1<sup>6</sup></a>	
<a href="#">Beaver Valley 1</a>	<a href="#">Crystal River 3<sup>7</sup></a>	<a href="#">Palo Verde 2<sup>8</sup></a>	<a href="#">Point Beach 2<sup>9</sup></a>	
<a href="#">Beaver Valley 2</a>	<a href="#">Hatch 1<sup>10</sup></a>	<a href="#">Palo Verde 3<sup>11</sup></a>		
<a href="#">Braidwood 1</a>	<a href="#">Hatch 2<sup>12</sup></a>			
<a href="#">Braidwood 2</a>	<a href="#">Indian Point 2<sup>13</sup></a>			
<a href="#">Browns Ferry 2</a>	<a href="#">Millstone 2<sup>14</sup></a>			
<a href="#">Browns Ferry 3</a>	<a href="#">Oyster Creek<sup>15</sup></a>			
<a href="#">Brunswick 1</a>	<a href="#">Three Mile Island 1<sup>16</sup></a>			
<a href="#">Byron 1</a>	<a href="#">Turkey Point 3<sup>17</sup></a>			
<a href="#">Byron 2</a>	<a href="#">Turkey Point 4<sup>18</sup></a>			
<a href="#">Callaway</a>				
<a href="#">Calvert Cliffs 1</a>				
<a href="#">Calvert Cliffs 2</a>				
<a href="#">Catawba 1</a>				
<a href="#">Catawba 2</a>				
<a href="#">Clinton</a>				
<a href="#">Comanche Peak 1</a>				
<a href="#">Comanche Peak 2</a>				
<a href="#">Cooper</a>				
<a href="#">D.C. Cook 1</a>				
<a href="#">D.C. Cook 2</a>				
<a href="#">Davis-Besse</a>				
<a href="#">Diablo Canyon 1</a>				
<a href="#">Diablo Canyon 2</a>				
<a href="#">Dresden 2</a>				
<a href="#">Dresden 3</a>				
<a href="#">Duane Arnold</a>				
<a href="#">Farley 1</a>				
<a href="#">Farley 2</a>				
<a href="#">Fermi 2</a>				
<a href="#">FitzPatrick</a>				
<a href="#">Fort Calhoun</a>				
<a href="#">Ginna</a>				
<a href="#">Grand Gulf 1</a>				
<a href="#">Harris 1</a>				
<a href="#">Hope Creek 1<sup>19</sup></a>				
<a href="#">Indian Point 3<sup>20</sup></a>				
<a href="#">La Salle 1<sup>21</sup></a>				

[La Salle 2<sup>22</sup>](#)  
[Limerick 1](#)  
[Limerick 2](#)  
[McGuire 1](#)  
[McGuire 2](#)  
[Millstone 3](#)  
[Monticello](#)  
[Nine Mile Point 1](#)  
[Nine Mile Point 2](#)  
[North Anna 1](#)  
[North Anna 2](#)  
[Oconee 1](#)  
[Oconee 2](#)  
[Oconee 3](#)  
[Palisades](#)  
[Peach Bottom 2](#)  
[Peach Bottom 3](#)  
[Pilgrim 1](#)  
[Prairie Island 1](#)  
[Prairie Island 2](#)  
[Quad Cities 1](#)  
[Quad Cities 2](#)  
[River Bend 1](#)  
[Robinson 2](#)  
[Saint Lucie 1](#)  
[Saint Lucie 2](#)  
[Salem 1<sup>23</sup>](#)  
[Salem 2<sup>24</sup>](#)  
[San Onofre 2](#)  
[San Onofre 3](#)  
[Seabrook 1](#)  
[Sequoyah 1](#)  
[Sequoyah 2](#)  
[South Texas 1](#)  
[South Texas 2](#)  
[Summer](#)  
[Surry 1](#)  
[Surry 2](#)  
[Susquehanna 1](#)  
[Susquehanna 2](#)  
[Vermont Yankee](#)  
[Vogtle 1](#)  
[Vogtle 2](#)  
[Waterford 3<sup>25</sup>](#)  
[Watts Bar 1](#)  
[Wolf Creek 1](#)

- ▲ Note 1: Brunswick Unit 2 is in the Regulatory Response Column due to a White performance indicator in the Initiating Events Cornerstone (Unplanned Power Changes) originating in 4Q/2005.
- ▲ Note 2: Kewaunee is in the Degraded Cornerstone Column due to one white finding in the Mitigating Systems cornerstone originating in 3Q2005 and one yellow finding in the Mitigating Systems cornerstone originating in 4Q2005.
- ▲ Note 3: Perry is in the Multiple/Repetitive Degraded Cornerstone Column due to the Mitigating Systems Cornerstone being degraded with multiple White findings for greater than 4 consecutive quarters. In particular, the ESW pump failure finding from 3Q2003 is being held open in accordance with MC 0305 for greater than 4 quarters because corrective actions were

ineffective and the pump failed again in May 2004. This finding, in conjunction with the 4Q2003 finding involving inadequate venting of the RHR/LPCI keep fill system, which is also being held open in accordance with MC 0305 for greater than 4 quarters pending the implementation of effective corrective actions to address performance deficiencies, resulted in greater than 4 consecutive quarters in the Degraded Cornerstone Column and placed the plant in the Multiple/Repetitive Degraded Cornerstone Column.

- ▲ Note 4: Columbia Generating Station is in the Regulatory Response Column due to one White PI in the Mitigating Systems Cornerstone originating in 1Q2005 (Safety System Unavailability, High Pressure Injection System (HPCS)) The 95001 supplemental inspection was completed in October 2005.
- ▲ Note 5: Palo Verde Nuclear Generating Station, Units 1, 2 and 3 are in the Degraded Cornerstone Column due to one Yellow finding in the Mitigating Systems Cornerstone originating in 4Q2004. The significance determination for this final Yellow finding and corresponding Notice of violation were issued on April 8, 2005. The supplemental inspection was completed in December 2005. The team determined that the Yellow finding would remain open, because not all of the licensee's root and contributing causes were fully developed, many of the corrective actions were narrowly focused or ineffective, and effectiveness reviews were not adequate. The licensee informed the NRC that they have completed additional corrective actions and are ready for the followup 95002 inspection. Currently, Region IV plans to conduct the followup inspection in late July 2006.
- ▲ Note 6: Point Beach Unit 1 is in the Multiple/Repetitive Degraded Cornerstone Column due to a red finding and a yellow finding in the Mitigating Systems Cornerstone originating in 1Q2002 and 1Q2003 respectively. Both findings are being held open in accordance with IMC 0305 for greater than 4 quarters pending the implementation of effective corrective actions to address performance deficiencies. In addition, a white finding in the Emergency Preparedness Cornerstone originating in 4Q2005 is not being considered in the action matrix due to a deviation approved by the EDO.
- ▲ Note 7: Crystal River 3 is in the Regulatory Response Column due to a White inspection finding in the Mitigating System Cornerstone (Fire Protection) originating in 3Q/2005.
- ▲ Note 8: Palo Verde Nuclear Generating Station, Units 1, 2 and 3 are in the Degraded Cornerstone Column due to one Yellow finding in the Mitigating Systems Cornerstone originating in 4Q2004. The significance determination for this final Yellow finding and corresponding Notice of violation were issued on April 8, 2005. The supplemental inspection was completed in December 2005. The team determined that the Yellow finding would remain open, because not all of the licensee's root and contributing causes were fully developed, many of the corrective actions were narrowly focused or ineffective, and effectiveness reviews were not adequate. The licensee informed the NRC that they have completed additional corrective actions and are ready for the followup 95002 inspection. Currently, Region IV plans to conduct the followup inspection in late July 2006.
- ▲ Note 9: Point Beach Unit 2 is in the Multiple/Repetitive Degraded Cornerstone Column due to two red findings in the Mitigating Systems Cornerstone originating in 1Q2002 and 1Q2003 respectively. Both findings are being held open in accordance with IMC 0305 for greater than 4 quarters pending the implementation of effective corrective actions to address performance deficiencies. In addition, a white finding in the Emergency Preparedness Cornerstone originating in 4Q2005 is not being considered in the action matrix due to a deviation approved by the EDO.
- ▲ Note 10: Hatch Units 1 and 2 are in the Regulatory Response Column due to a White inspection finding in the Emergency Preparedness Cornerstone (TSC removed from service greater than seven days) originating in 2Q/2005.
- ▲ Note 11: Palo Verde Nuclear Generating Station, Units 1, 2 and 3 are in the Degraded Cornerstone Column due to one Yellow finding in the Mitigating Systems Cornerstone originating in 4Q2004. The significance determination for this final Yellow finding and corresponding Notice of violation were issued on April 8, 2005. The supplemental inspection was completed in December 2005. The team determined that the Yellow finding would remain open, because not all of the licensee's root and contributing causes were fully developed, many of the corrective actions were narrowly focused or ineffective, and effectiveness reviews were not adequate. The licensee informed the NRC that they have completed additional corrective actions and are ready for the followup 95002 inspection. Currently, Region IV plans to conduct the followup inspection in late July 2006.
- ▲ Note 12: Hatch Units 1 and 2 are in the Regulatory Response Column due to a White inspection finding in the Emergency Preparedness Cornerstone (TSC removed from service greater than seven days) originating in 2Q/2005.
- ▲ Note 13: Indian Point 2 was in the Regulatory Response Column due to one WHITE inspection finding in the Mitigating Systems Cornerstone from 2Q2005. The WHITE finding related to nitrogen gas that was discovered in the safety injection (SI) system. The 95001 inspection for this finding was completed in December 2005, and provided a positive assessment of the licensee's corrective actions. As a result, this White finding will no longer be considered for assessment purposes after 1Q2006.
- ▲ Note 14: Millstone 2 was in the Regulatory Response Column due to one WHITE Performance Indicator in the Initiating Events Cornerstone originating in 1Q2006. The WHITE Performance Indicator was related to unplanned scrams with loss of normal heat removal.
- ▲ Note 15: Oyster Creek was in the Regulatory Response Column due to one WHITE inspection finding in the Emergency Preparedness (EP) Cornerstone originating in 3Q2005. The WHITE finding involved an inadequate response to an event involving grassing of the intake structure.
- ▲ Note 16: Three Mile Island was in the Regulatory Response Column due to a WHITE inspection finding in the Emergency Preparedness Cornerstone originating in 2Q2005. The WHITE inspection finding involved training of the Emergency Response Organization. The 95001 inspection for this finding was completed in March 2006, and provided a positive assessment of the licensee's corrective actions. As a result, this White finding will no longer be considered for assessment purposes after 1Q2006.

- ▲ Note 17: Turkey Point Units 3 and 4 are in the Regulatory Response Column due to a White performance indicator in the Mitigating System Cornerstone (AFW, Unavailability) originating in 4Q/2005.
- ▲ Note 18: Turkey Point Units 3 and 4 are in the Regulatory Response Column due to a White performance indicator in the Mitigating System Cornerstone (AFW, Unavailability) originating in 4Q/2005.
- ▲ Note 19: On July 29, 2005, the EDO approved a renewal of a Deviation from the ROP Action Matrix to provide a greater level of oversight for the Salem and Hope Creek Generating Stations. The Deviation includes oversight activities to monitor licensee improvement efforts in safety conscious work environment and related performance attributes.
- ▲ Note 20: On October 31, 2005, the EDO approved a Deviation from the ROP Action Matrix to provide a greater level of oversight for the Indian Point Energy Center (IPEC). The Deviation includes oversight activities to monitor licensee action to: 1) characterize and remediate tritium found onsite, and 2) improve the reliability of the emergency siren system.
- ▲ Note 21: One white inspection finding in the initiating events cornerstone originating in 2Q/2005 was determined to be an old design issue in accordance with IMC 0305, and is not considered as an input to the assessment program.
- ▲ Note 22: One white inspection finding in the initiating events cornerstone originating in 2Q/2005 was determined to be an old design issue in accordance with IMC 0305, and is not considered as an input to the assessment program.
- ▲ Note 23: On July 29, 2005, the EDO approved a renewal of a Deviation from the ROP Action Matrix to provide a greater level of oversight for the Salem and Hope Creek Generating Stations. The Deviation includes oversight activities to monitor licensee improvement efforts in safety conscious work environment and related performance attributes.
- ▲ Note 24: On July 29, 2005, the EDO approved a renewal of a Deviation from the ROP Action Matrix to provide a greater level of oversight for the Salem and Hope Creek Generating Stations. The Deviation includes oversight activities to monitor licensee improvement efforts in safety conscious work environment and related performance attributes.
- ▲ Note 25: Discrepant PI inspection (71150) at Waterford 3 in progress.

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*Last modification: May 02, 2006*