

## **LIST OF REGULATORY ACTIONS THAT RELY UPON THE QUALITATIVE CONSIDERATION OF FACTORS**

The U.S. Nuclear Regulatory Commission (NRC) staff performed a review of backfit analyses and regulatory analyses for orders, rulemaking, and other regulatory actions to identify when the NRC staff qualitatively considered factors that cannot be quantitatively evaluated or do not otherwise lend themselves to a quantitative evaluation. The list below includes the types of factors that were qualitatively evaluated by the NRC staff in the list of backfit analyses and regulatory analyses presented in the subsequent tables. The subsequent tables provide a high-level summary of this review for the following factors:

- defense in depth (DID)
- uncertainty
- decreased risk of a security-related event
- decreased risk of exposure to the public
- decreased risk of exposure to workers
- improved state of knowledge
- increased public confidence
- decreased risk of onsite property damage
- decreased risk of offsite property damage
- increased regulatory efficiency
- increased regulatory effectiveness
- tribes given the option of being informed of commercial nuclear waste shipments passing through their reservations
- improvements in knowledge and increased potential for public perception of unauthorized disclosure of safeguards information due to wider dissemination of information
- core damage frequency (CDF) unaffected
- substantial increase to public health and safety
- added assurance that risk of offsite releases is acceptably low
- insufficient information and modeling to quantify
- subversion of detection process
- ineffective fitness-for-duty (FFD) requirements
- ambiguous regulatory language
- technical developments
- FFD program integrity
- reduction of unnecessary burden

- appropriate balance between the prevention and mitigation of severe accidents, including fission product removal, long-term containment pressure, and severe accident management
- hydrogen control
- external events
- severe accident management
- regulatory efficiency
- improvements in knowledge
- general public
- increased and consistent environmental protection (EP) measures that would decrease the risk of exposure to the public
- increased accident mitigation if it is beyond operator actions
- safety and security-related benefits that would offset the cost
- increased defense capabilities
- safeguards and security considerations
- workplace productivity and efficiency
- public perception
- an improved understanding of the emergency core cooling system (ECCS) and containment spray system (CSS) recirculation at pressurized-water reactor (PWR) facilities

**Table 1 Orders with Qualitative Discussions in Backfit Determinations<sup>1</sup>**

ORDER	CITATION	BACKFIT DETERMINATION	JUSTIFICATION	LOCATION OF BACKFIT ANALYSIS
<b>Reliable Hardened Severe Accident Capable Vents</b> <i>Order EA-13-109</i>	<a href="#">ML13143A321</a>	Cost-Justified Substantial Safety Enhancement	Quantitative and Qualitative (DID)	<a href="#">ML12312A456</a> (includes regulatory analysis)
<b>Spent Fuel Pool Instrumentation</b> <i>Order EA-12-051</i>	<a href="#">ML12054A679</a>	Administrative Exemption (significant safety enhancement)	Qualitative	-
<b>Reliable Hardened Containment Vents</b> <i>Order EA-12-050</i>	<a href="#">ML12056A043</a>	Adequate Protection	-	-
<b>Mitigation Strategies for Beyond-Design-Basis External Events</b> <i>Order EA-12-049</i>	<a href="#">ML12056A045</a>	Adequate Protection	-	-

<sup>1</sup> A regulatory analysis was not prepared with Order EA-12-049, Order EA-12-050, and Order EA-12-051. Regulatory analysis requirements for a given action may be eliminated or modified at the discretion of the Commission, the Executive Director of Operations, or a Deputy Executive Director or at the discretion of the responsible U.S. Nuclear Regulatory Commission (NRC) Office Director. A factor that could influence this decision is the degree of urgency associated with the regulatory action. For example, the NRC may need to issue urgent bulletins and orders without regulatory analyses. (See page 5 of Revision 4 to NUREG/BR-0058, "Regulatory Analysis Guidelines of the U.S. Nuclear Regulatory Commission," issued September 2004.)

**Table 2 Rulemaking with Qualitative Discussions in Backfit Analysis or Regulatory Analysis or Both**

<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>JUSTIFICATION</b>	<b>LOCATION OF BACKFIT ANALYSIS</b>	<b>LOCATION OF REGULATORY ANALYSIS</b>
<b>Distribution of Source Material to Exempt Persons and to General Licensees and Revision of General License and Exemptions</b> <i>(Title 10 of the Code of Federal Regulations (10 CFR) Parts 30, 40, 70, 170, and 171)</i>	<a href="#">78 FR 32310</a> (May 29, 2013)	Not a Backfit	Qualitative <i>(the decreased risk of a security-related event will decrease the risk of exposure to the public, will improve the state of knowledge, and will increase public confidence)</i>	-	<a href="#">ML12171A222</a>
<b>Physical Protection of Irradiated Reactor Fuel in Transit</b> <i>(10 CFR 73.37)</i>	<a href="#">78 FR 29550</a> (May 20, 2013)	Not a Backfit	Qualitative <i>(the decreased risk of a security-related event will decrease the risk of exposure to workers and the public, will decrease the risk of onsite and offsite property damage, and will improve regulatory efficiency)</i>	-	<a href="#">ML120050180</a>
<b>Physical Protection of Byproduct Material</b> <i>(10 CFR Parts 20, 30, 32, 33, 34, 35, 36, 37, 39, 51, 71, and 73)</i>	<a href="#">78 FR 17007</a> (March 19, 2013)	Not a Backfit	Qualitative <i>(the decreased risk of a security-related event will decrease the risk of exposure to workers and the public and will decrease the risk of onsite and offsite property damage)</i>	-	<a href="#">ML112920114</a>

<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>JUSTIFICATION</b>	<b>LOCATION OF BACKFIT ANALYSIS</b>	<b>LOCATION OF REGULATORY ANALYSIS</b>
<b>Requirements for Maintenance of Inspections, Tests, Analyses, and Acceptance Criteria</b> <i>(10 CFR 52.99)</i>	<a href="#">77 FR 51880</a> (August 28, 2012)	Not a Backfit	-	-	<a href="#">77 FR 51890–51891</a> <i>(summarizing regulatory analysis)</i>  <a href="#">ML120100062</a> <i>(qualitative factors listed as decision elements)</i>
<b>Requirements for Distribution of Byproduct Material</b> <i>(10 CFR Parts 30, 31, 32, 40, and 70)</i>	<a href="#">77 FR 43666</a> (July 25, 2012)	Not a Backfit	Qualitative <i>(increased regulatory efficiency and effectiveness)</i>	-	<a href="#">ML12104A260</a>
<b>Advance Notification to Native American Tribes of the Transportation of Certain Types of Nuclear Waste</b> <i>(10 CFR Parts 71 and 73)</i>	<a href="#">77 FR 34194</a> (June 11, 2012)	Not a Backfit	Qualitative <i>(tribes given the option of being informed of commercial nuclear waste shipments passing through their reservations and improvements in knowledge and increased potential for public perception of unauthorized disclosure of safeguards information due to wider dissemination of information)</i>	-	<a href="#">ML112220344</a>
<b>Enhancements to Emergency Preparedness</b> <i>(10 CFR 50.47)</i>	<a href="#">76 FR 72560</a> (November 23, 2011)	Not a Backfit (portion); Cost-justified Substantial Safety Enhancement (portion)	Qualitative <i>(an unaffected CDF decreases the risk of exposure to the public)</i>	<a href="#">ML112971541</a>	<a href="#">ML112971541</a>

<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>JUSTIFICATION</b>	<b>LOCATION OF BACKFIT ANALYSIS</b>	<b>LOCATION OF REGULATORY ANALYSIS</b>
<b>Enhanced Weapons, Firearms, Background Checks, and Security Event Notifications</b> (10 CFR Part 73)	<a href="#">76 FR 6200</a> (February 3, 2011)	Not a Backfit (portion); Adequate Protection (portion)	Voluntary	<a href="#">76 FR 6231</a>	<a href="#">76 FR at 6226 – 6231</a> (summarizing regulatory analysis)  <a href="#">ML061380803</a> and <a href="#">ML061440013</a> (appendices from the October 2006 proposed rule)
<b>Alternate Fracture Toughness Requirements for Protection against Pressurized Thermal Shock</b> (10 CFR 50.61)	<a href="#">75 FR 13</a> (January 4, 2010)	Not a Backfit	-	-	<a href="#">ML092710544</a> (regulatory flexibility is discussed as a decision element)
<b>Revisions to Environmental Review for Renewal of Nuclear Power Plant Operating Licenses</b> (10 CFR Part 51) (proposed rule)	<a href="#">74 FR 38117</a> (July 31, 2009)	Not a Backfit	-	-	<a href="#">ML083460087</a> (qualitative factors listed as decision elements)  Note that the regulatory analysis for the final affirmed rule is <a href="#">ML110760321</a> .
<b>Aircraft Impact Assessment Rule</b> (10 CFR 50.150)	<a href="#">74 FR 28112</a> (June 12, 2009)	Not a Backfit (portion); Administrative Exemption (portion)	Qualitative (uncertainty; found a substantial increase to public health and safety)	c.f. <a href="#">74 FR 28144–28145</a>	<a href="#">74 FR 28142</a>
<b>Power Reactor Security Requirements</b> (10 CFR Part 73 and 10 CFR 50.54)	<a href="#">74 FR 13926</a> (March 27, 2009)	Not a Backfit (portion); Cost-Justified Substantial Safety Enhancement (portion)	Qualitative (provides added assurance that the risk of offsite releases is acceptably low; the reduction in the risk to the public has not been fully quantified because of insufficient information and modeling to support such a justification)	<a href="#">ML083390372</a> and <a href="#">ML081680090</a> (appendices)	<a href="#">ML083390372</a>

<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>JUSTIFICATION</b>	<b>LOCATION OF BACKFIT ANALYSIS</b>	<b>LOCATION OF REGULATORY ANALYSIS</b>
<b>Fitness for Duty Programs</b> (10 CFR Part 26)	<a href="#">73 FR 16966</a> (March 31, 2008)	Cost-Justified Substantial Safety Enhancement	Qualitative (insufficient information and modeling to quantify; subversion of detection process, regulatory efficiency, ineffective FFD requirements, ambiguous regulatory language, technical developments, and FFD program integrity)	<a href="#">73 FR 17172</a> (portion)  <a href="#">ML080580135</a>	<a href="#">ML080580135</a>
<b>Exemptions from Licensing, General Licenses, and Distribution of Byproduct Material: Licensing and Reporting Requirements</b> (10 CFR Parts 30, 31, 32, and 150)	<a href="#">72 FR 58473</a> (October 16, 2007)	Not a Backfit	Qualitative (increased regulatory efficiency and effectiveness and the reduction of unnecessary burden)	-	<a href="#">ML071760296</a>
<b>Limited Work Authorizations for Nuclear Power Plants</b> (10 CFR 50.10)	<a href="#">72 FR 57416</a> (October 9, 2007)	Not a Backfit	-	-	<a href="#">ML071870012</a> (qualitative factors listed as decision elements)
<b>Requirements for Expanded Definition of Byproduct Material</b> (10 CFR Parts 20, 30, 31, 32, 33, 35, 50, 61, 62, 72, 110, 150, 170, and 171)	<a href="#">72 FR 55864</a> (October 1, 2007)	Not a Backfit	Qualitative (the decreased risk of a security-related event will decrease the risk of exposure to workers and the public and will decrease the risk of onsite and offsite property damage)	-	<a href="#">ML070750118</a>

<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>JUSTIFICATION</b>	<b>LOCATION OF BACKFIT ANALYSIS</b>	<b>LOCATION OF REGULATORY ANALYSIS</b>
<b>Licenses, Certifications, and Approvals for Nuclear Power Plants</b> (10 CFR Part 52)	<a href="#">72 FR 49352</a> (August 28, 2007)	Not a Backfit	-	-	<a href="#">ML071490350</a> (qualitative factors listed as decision elements)
<b>Design-Basis Threat</b> (10 CFR 73.1)	<a href="#">72 FR 12705</a> (March 19, 2007)	Adequate Protection	-	-	<a href="#">ML070530193</a> (qualitative factors discussed as decision elements)
<b>Safeguards Information Protection Requirements</b> (10 CFR Part 73)	<a href="#">73 FR 63546</a> (October 24, 2008)	Not a Backfit (portion); Adequate Protection (portion)	-	-	<a href="#">ML072190656</a> (qualitative factors discussed as decision elements)
<b>Emergency Planning and Preparedness for Production and Utilization Facilities</b> (10 CFR Part 50, Appendix E)	<a href="#">70 FR 3591</a> (January 26, 2005)	Not a Backfit	-	-	<a href="#">70 FR 3595</a> (qualitative factors discussed as decision elements)
<b>Post-Fire Manual Actions</b> (10 CFR 50.48) (not approved by the Commission)	<a href="#">ML041940511</a> (SECY-04-0233)  <a href="#">ML050180267</a> (SRM)	Not a Backfit	-	-	<a href="#">ML041950046</a> (regulatory efficiency and public confidence)
<b>Risk-Informed Categorization and Treatment of SSCs for Nuclear Power Plants</b> (10 CFR 50.69)	<a href="#">69 FR 68008</a> (November 22, 2004)	Not a Backfit	-	-	<a href="#">ML041000474</a>



<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>JUSTIFICATION</b>	<b>LOCATION OF BACKFIT ANALYSIS</b>	<b>LOCATION OF REGULATORY ANALYSIS</b>
<b>Voluntary Fire Protection Requirements for Light-Water Reactors; Adoption of NFPA-805 as a Risk-Informed, Performance-Based Alternative</b> <i>(10 CFR 50.48)</i>	<a href="#">69 FR 33536</a> (June 16, 2004)	Not a Backfit	-	-	<a href="#">ML040540542</a> <i>(regulatory flexibility discussed as a decision element)</i>
<b>Financial Information Requirements for Applications To Renew or Extend the Term of an Operating License for a Power Reactor</b> <i>(10 CFR 50.76)</i>	<a href="#">69 FR 4439</a> (January 30, 2004)	Not a Backfit	-	-	<a href="#">ML032460795</a> <i>(qualitative factors discussed as decision elements)</i>
<b>Changes to the Adjudicatory Process</b> <i>(10 CFR Part 2)</i>	<a href="#">69 FR 2182</a> (January 14, 2004)	Not a Backfit	-	-	<a href="#">69 FR 2231–2232</a> <i>(qualitative factors discussed as decision elements)</i>

**Table 3 Regulatory Actions<sup>2</sup> with Qualitative Discussions in Backfit Analysis or Regulatory Analysis or Both**

REGULATORY ACTION	CITATION	BACKFIT DETERMINATION	JUSTIFICATION	LOCATION OF BACKFIT ANALYSIS	LOCATION OF REGULATORY ANALYSIS
<b>Policy and Key Technical Issues Pertaining to the Westinghouse AP600 Standardized Passive Reactor Design</b> <i>SECY-97-044</i>	<a href="#">ML003708316</a> (SECY)  <a href="#">ML003756168</a> (SRM)	-	Qualitative (appropriate balance between prevention and mitigation of severe accidents, including fission product removal, long-term containment pressure, and severe accident management)	-	<a href="#">ML003708316</a>
<b>Post-Fire Safe-Shutdown Circuit Analysis Spurious Actuations</b> <i>Generic Letter 2006-XX</i> (issuance of generic letter denied by the Commission)	<a href="#">ML061950031</a> (SECY)  <a href="#">ML063490261</a> (Commission denial)	Not a Backfit	Qualitative (the quantitative net benefit was negative)	-	<a href="#">ML061950031</a>
<b>Potential Impact of Debris Blockage on Emergency Recirculation during Design-Basis Accidents at PWRs</b> <i>Generic Letter 2004-02</i>	<a href="#">ML042360586</a>	Compliance	Qualitative (the quantitative net benefit was negative)	-	<a href="#">ML042260449</a>
<b>Accept the Guidance in NEI 99-01 as an Alternative Methodology for the Development of Emergency Action Levels</b> <i>Revision 4 of Regulatory Guide 1.101</i>	<a href="#">ML032020276</a>	-	-	-	<a href="#">ML030440632</a> (qualitative factors discussed as decision elements)
<b>Emergency Response Planning and Preparedness for Nuclear Power Reactors</b> <i>Revision 5 of Regulatory Guide 1.101</i>	<a href="#">ML050730286</a>	Not a Backfit	Voluntary	-	<a href="#">ML050730286</a> , Page 6

<sup>2</sup> The staff reviewed bulletins, but it did not find any that had qualitative discussions in the backfit analysis or the regulatory analysis or both.

REGULATORY ACTION	CITATION	BACKFIT DETERMINATION	JUSTIFICATION	LOCATION OF BACKFIT ANALYSIS	LOCATION OF REGULATORY ANALYSIS
<b>Training and Qualification of Security Personnel at Nuclear Power Reactor Facilities</b> <i>Regulatory Guide 5.75</i>	<a href="#">ML091690037</a>	Not a Backfit (portion); Cost-Justified Substantial Safety Enhancement (portion)	Qualitative <i>(relied on the backfit analysis of the power reactor security rule)</i>	<a href="#">76 FR 13968</a> (March 27, 2009)	-
<b>Guidance for the Assessment of Beyond-Design-Basis Aircraft Impacts</b> <i>Regulatory Guide 1.217</i>	<a href="#">ML092900004</a>	Not a Backfit	Voluntary	-	<a href="#">ML112101610</a> <i>(references 10 CFR 50.150)</i>  <a href="#">74 FR 28112 and 28136</a> (June 12, 2009)

**Table 4 List of Regulatory Actions for which Qualitative Factors Justified  
a Decision That May Not Have Been Quantitatively Cost Justified**

<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>QUANTITATIVE JUSTIFICATION<sup>3,4,5</sup> (millions)</b>	<b>QUALITATIVE JUSTIFICATION</b>	<b>LOCATION OF BACKFIT/REGULATORY ANALYSIS</b>
<b>Reliable Hardened Severe Accident Capable Vents</b> <i>Order EA-13-109</i>		Cost-Justified Substantial Safety Enhancement	Contains costs and benefits (\$50 to \$77) <i>BWR Mark I</i> (\$45 to \$100) <i>BWR Mark II</i>	DID, hydrogen control, external events, and severe accident management	<a href="#">ML12312A456</a>
<b>Requirements for Maintenance of Inspections, Tests, Analyses, and Acceptance Criteria</b> <i>(10 CFR 52.99)</i>	<a href="#">77 FR 51880</a> (August 28, 2012)	Not a Backfit	(\$2.16 to \$1.98)	Regulatory efficiency, improvements in knowledge, and general public	<a href="#">77 FR 51890-91</a> <i>(summarizes regulatory analysis)</i>  <a href="#">ML120100062</a> <i>(full regulatory analysis)</i>
<b>Enhancements to Emergency Preparedness</b> <i>(10 CFR 50.47)</i>	<a href="#">76 FR 72560</a> (November 23, 2011)	Not a Backfit (portion); Cost-Justified Substantial Safety Enhancement (portion)	(\$75.9 to \$59.8)	Increased and consistent EP measures that would decrease the risk of exposure to the public and increased accident mitigation if it is beyond operator actions	<a href="#">ML112971541</a> <i>(backfit analysis and regulatory analysis)</i>

<sup>3</sup> The range of net benefits results from using 3-percent and 7-percent net present values for consistency with NUREG/BR-0058.

<sup>4</sup> Unless stated otherwise, benefits were not quantified within the quantitative justification.

<sup>5</sup> The sign convention is “favorable consequences are positive” and “adverse consequences are negative.”

<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>QUANTITATIVE JUSTIFICATION<sup>3,4,5</sup> (millions)</b>	<b>QUALITATIVE JUSTIFICATION</b>	<b>LOCATION OF BACKFIT/REGULATORY ANALYSIS</b>
<b>Enhanced Weapons, Firearms, Background Checks, and Security Event Notifications</b> (10 CFR Part 73)	<a href="#">76 FR 6200</a> (February 3, 2011)	Not a Backfit (portion); Adequate Protection (portion)	(\$70.2 to \$47.4)	Safety and security-related benefits that would offset the cost, enhanced regulatory efficiency, and increased defense capabilities	<a href="#">76 FR 6231</a> (backfit analysis)  <a href="#">76 FR 6226–6231</a> (summarizes regulatory analysis)  <a href="#">ML061380803</a> and <a href="#">ML061440013</a> (appendices from the October 2006 proposed rule)
<b>Alternate Fracture Toughness Requirements for Protection against Pressurized Thermal Shock</b> (10 CFR 50.61)	<a href="#">75 FR 13</a> (January 4, 2010)	Not a Backfit	(\$57.3 to \$49.7)	Regulatory efficiency and improvements in knowledge	<a href="#">ML092710544</a> (regulatory analysis)
<b>Revisions to the Environmental Review for Renewal of Nuclear Power Plant Operating Licenses</b> (10 CFR Part 51) (proposed rule)	<a href="#">74 FR 38117</a> (July 31, 2009)	Not a Backfit	(\$2.64 to \$2.29)	Improvements in knowledge and regulatory efficiency	<a href="#">ML083460087</a> (regulatory analysis)  Note that the regulatory analysis for the final affirmed rule is <a href="#">ML110760321</a> .
<b>Aircraft Impact Assessment Rule</b> (10 CFR 50.150)	<a href="#">74 FR 28112</a> (June 12, 2009)	Not a Backfit (portion); Administrative Exemption (portion)	(\$6.0 to \$4.9)	Reduced risk to the public and occupational health and offsite and onsite property, improvements in knowledge, and safeguards and security considerations	c.f. <a href="#">74 FR 28144–28145</a> (backfit analysis)  <a href="#">74 FR 28142</a> (regulatory analysis)

<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>QUANTITATIVE JUSTIFICATION<sup>3,4,5</sup> (millions)</b>	<b>QUALITATIVE JUSTIFICATION</b>	<b>LOCATION OF BACKFIT/REGULATORY ANALYSIS</b>
<b>Power Reactor Security Requirements</b> (10 CFR Part 73 and 10 CFR 50.54)	<a href="#">74 FR 13926</a> (March 27, 2009)	Not a Backfit (portion); Cost-Justified Substantial Safety Enhancement (portion)	(\$857.3 to \$590.2)	Safeguards and security, regulatory efficiency, and reduced risk to the public and occupational health and offsite and onsite property	<a href="#">ML083390372</a> (backfit analysis and regulatory analysis)  <a href="#">ML081680090</a> (appendices)
<b>FFD Programs</b> (10 CFR Part 26)	<a href="#">73 FR 16966</a> (March 31, 2008)	Cost-Justified Substantial Safety Enhancement	(\$694 to \$445) (insufficient modeling)	Reduced risk to the public and occupational health and offsite and onsite property, regulatory efficiency, public perception, and workplace productivity and efficiency	<a href="#">73 FR 17172</a> (portion of backfit analysis)  <a href="#">ML080580135</a> (backfit analysis and regulatory analysis)
<b>Licenses, Certifications, and Approvals for Nuclear Power Plants</b> (10 CFR Part 52)	<a href="#">72 FR 49352</a> (August 28, 2007)	Not a Backfit	(\$19.3 to \$10.2) (benefits quantified)	Regulatory efficiency	<a href="#">ML071490350</a> (regulatory analysis)
<b>Safeguards Information Protection Requirements</b> (10 CFR Part 73)	<a href="#">73 FR 63546</a> (October 24, 2008)	Not a Backfit (portion); Adequate Protection (portion)	(\$18.8 to \$15.8)	Positive effect on public and occupational health, increased protection of onsite and offsite property, and increased protection of common defense and security of the Nation	<a href="#">ML072190656</a> (regulatory analysis)
<b>Post-Fire Safe-Shutdown Circuit Analysis Spurious Actuations</b> Generic Letter 2006-XX (issuance of generic letter denied by the Commission)	<a href="#">ML061950031</a> (SECY) <a href="#">ML063490261</a> (Commission denial)	Not a Backfit	(\$52.8 to \$67.4) (benefits quantified)	Improvements in knowledge and regulatory efficiency	<a href="#">ML061950031</a>

<b>RULE</b>	<b>FEDERAL REGISTER (FR) CITATION</b>	<b>BACKFIT DETERMINATION</b>	<b>QUANTITATIVE JUSTIFICATION<sup>3,4,5</sup> (millions)</b>	<b>QUALITATIVE JUSTIFICATION</b>	<b>LOCATION OF BACKFIT/REGULATORY ANALYSIS</b>
<b>Potential Impact of Debris Blockage on Emergency Recirculation during Design-Basis Accidents at PWRs</b> <i>Generic Letter 2004-02</i>	<a href="#">ML042360586</a>	Compliance	Of the four scenarios provided, some had negative benefits, and the others had positive benefits. ( <i>benefits quantified</i> )	Regulatory efficiency, improved understanding of ECCS and CSS recirculation at PWR facilities, improved public health and safety, and increased public confidence	<a href="#">ML042260449</a>
<b>Training and Qualification of Security Personnel at Nuclear Power Reactor Facilities</b> <i>Regulatory Guide 5.75</i>	<a href="#">ML091690037</a>	Not a Backfit (portion); Cost-Justified Substantial Safety Enhancement (portion)	(\$857.3 to \$590.2)	Safeguards and security, regulatory efficiency, and reduced risk to the public and occupational health and offsite and onsite property	<a href="#">76 FR 13968</a> (March 27, 2009) ( <i>relied on the regulatory analysis of the power reactor security rule</i> )
<b>Guidance for the Assessment of Beyond-Design-Basis Aircraft Impacts</b> <i>Regulatory Guide 1.217</i>	<a href="#">ML092900004</a>	Not a Backfit	(\$6.0 to \$4.9)	Reduced risk to the public and occupational health and offsite and onsite property, improvements in knowledge, and safeguards and security considerations	<a href="#">ML112101610</a> ( <i>references 10 CFR 50.150</i> ) <a href="#">74 FR 28112 and 28136</a> (June 12, 2009) ( <i>relied on regulatory analysis of the aircraft impact assessment rule</i> )