

REGULATORY ANALYSIS

FINAL RULE

FINANCIAL INFORMATION REQUIREMENTS FOR APPLICATIONS TO RENEW OR EXTEND THE TERM OF AN OPERATING LICENSE FOR A POWER REACTOR

1. Introduction

The U.S. Nuclear Regulatory Commission (NRC) initiated a rulemaking to amend the regulations in 10 CFR Part 50 pertaining to financial qualifications reviews for nuclear power plants. NRC has decided to issue two amendments to the regulations that address financial qualifications reviews for non-electric utility power reactor licensees. The first amendment eliminates the requirement that non-electric utility power reactor licensees submit financial qualifications information when applying for a license renewal. The second amendment adds a new section to Part 50 that creates a formal mechanism requiring the submission of financial qualifications information in situations where electric utilities transition to non-electric utility status without a license transfer.

1.1 Statement of the Problem and Objective of the Rule

NRC has determined that the existing regulations in 10 CFR Part 50 should be modified to reduce regulatory burden by eliminating unnecessary submission and review of financial qualifications information at the time of renewal of nuclear power reactor operating licenses, and to provide regulatory clarity by establishing a formal process to review financial qualifications information in certain circumstances in which the rule currently is unclear. Specifically, amendments to section 50.33(f) would reduce the regulatory burden and new section 50.76 would establish a formal process to review financial qualifications information for electric utility licensees that transition to non-electric utility status without a license transfer.

The current section 50.33(f) requires non-electric utility power reactor applicants for license renewals to submit financial qualifications information with their applications. NRC has concluded that the submission and concomitant financial review of non-electric utility power reactor applicants for license renewal is unnecessary for the following reasons. NRC's current regulations provide for a review of financial qualifications at several stages during the life of a license, such as at initial license application, license transfer, and at any time NRC determines that the licensee's financial health requires a review. Thus the current regulations allow NRC to monitor and evaluate changes in licensees' financial status. NRC monitors and evaluates changes in a licensee's financial health by reviewing the financial and industry trade press and Securities and Exchange Commission (SEC) and Federal Energy Regulatory Commission (FERC) submissions by licensees. If the NRC's evaluation indicates the licensee's financial health has deteriorated, a full financial qualifications review may be initiated. The review of the trade press allows NRC to identify those licensees that are starting to show financial distress through reduced earnings and other indicators. Although the information in the trade press is limited and the information may be for the licensee's parent company, the trade press does

provide the early warning that NRC needs to initiate a full financial qualifications review. This early warning is provided because the NRC is concerned with a licensee's ability to have access to funds to operate their nuclear facility safely and is not concerned with a licensee's ability to make a profit. Since most other stakeholders are concerned about a licensee's ability to make a profit, this is what the trade press reports, which allows enough early warning so that NRC can initiate a full financial qualifications review and take any necessary actions.

The NRC believes that license renewal is not accompanied by a change in a licensee's financial condition, because license renewal does not warrant a financial qualifications review. In addition, the NRC cannot require a licensee to change its business practices to be more profitable; however, it can require licensees to meet the regulatory and license requirements or face the possibility of being shut down for safety reasons. The NRC spends considerable resources evaluating the safety and technical aspects of renewal applicants. On average NRC spends approximately 19,000 staff hours on each license renewal application.

Thus, by amending section 50.33(f) to eliminate the requirement for submission of financial qualifications information from non-electric utility power reactors renewing an operating license, NRC would remove unnecessary burden and treat all power reactor licensees consistently with respect to financial qualifications reviews at license renewal.

New section 50.76 establishes a formal process to review the financial qualifications of electric utilities making a transition to non-electric utility status without a license transfer. NRC's current regulations do not provide for a formal process to review financial qualifications of electric utility power reactor licensees that transition to non-electric utility status. The establishment of a formal review process is important because when an electric utility licensee transitions to non-electric utility status, the licensee would no longer be regulated by a state public utility commission (PUC) or the FERC, both of which establish rates that ensure sufficient funds for safe operations. Non-electric utility power reactor licensees are subject to rates set by the open market. NRC believes that the transition from an electric utility to a non-electric utility is a significant event that requires regulatory review to ensure the continued safe operation under the license. Although no problems have occurred to date with transitions to non-electric utility status, NRC hopes to prevent any problems from occurring by taking this action.

NRC believes that establishing a formal review requirement would enhance public confidence while maintaining regulatory efficiency and effectiveness. NRC already has an informal monitoring process that involves NRC staff monitoring the financial trade press for potentially relevant information on changes in reactor licensee financial strength. The action would complete a set of requirements for NRC's review of financial qualifications that would allow total coverage of all relevant triggering events for power reactor licensees, including initial operating license application, transfer of the license to another entity, transition from electric utility to non-electric utility status without a license transfer, and evidence of a decline in the financial status of a licensee. Table 1-1 shows the financial qualifications submission requirements for these four triggering events. Providing this coverage of all relevant triggering events is expected to enhance public confidence.

Table 1-1: Power Reactor Financial Qualification Submission Requirements

Event	Requirements for Electric Utilities	Requirements for Non-Electric Utility Entities
Initial License to Operate	Rate making process governed by state PUCs and/or FERC ensures sufficient funds are available for operation and thus financial qualifications are not required to be submitted.	Financial qualifications are submitted with the initial licensing application for NRC's review.
License Transfer	A license transfer to another electric utility does not require submission of financial qualifications for the reasons stated under Initial Licensing.	Financial qualifications are submitted for review as part of the license transfer process.
Transition from an Electric Utility to a Non-Electric Utility	Not applicable	New section 50.76 would establish a formal process for NRC to review the financial qualifications of the new non-electric utility entity during the transition process.
Evidence of a Decline in Licensee Financial Status	Financial qualifications information is submitted upon request of NRC.	Financial qualifications information is submitted upon request of NRC.

1.2 Current Regulations Governing Submission of Financial Qualifications Information for Power Reactor Licensees

NRC has regulations in place to evaluate a power reactor applicant's or licensee's financial qualifications at several points in the lifetime of the license. The regulations include the review of financial qualifications information at initial operating licensing (section 50.33(f)(2)), before license transfer (section 50.80), and where circumstances warrant an ad hoc request for additional financial information (section 50.33(f)(4)). The following paragraphs summarize the financial qualifications information submission requirements of these three sections of 10 CFR 50 and the financial qualifications review process itself.

Section 50.33(f)(2) - Initial Operating License Applications. Section 50.33(f)(2) requires non-electric utility applicants for initial operating licenses for nuclear power plants to submit financial qualifications information (i.e., projections of revenues and expenses for the first 5 years of operations) with their applications. Applicants that are electric utilities are exempt from these requirements because the ratemaking process assures that funds needed for safe operation would be made available to regulated electric utilities.

Section 50.80 - License Transfers. Section 50.80 requires applicants seeking to transfer a power reactor operating license from an electric utility to a non-electric utility to submit financial qualifications information. License transfers from one electric utility to another electric utility are

exempt from submitting financial qualifications information because the ratemaking process assures that funds needed for safe operation would be made available to regulated electric utilities.

Section 50.33(f)(4) - Ad Hoc Reviews. Section 50.33(f)(4) allows NRC to request from licensees financial qualifications information that allows NRC to assess the availability of funds the licensee has to manage licensed activities in a manner that is protective of the health and safety of the public. These requests are made independently of initial licensing or the renewal process and afford NRC the ability to review the financial qualifications information of a licensee at any time, particularly if a licensee's financial status declines.

Financial Qualifications Review Process. The NRC staff performs a review of the estimated total annual operating costs for the first five years of operation following the issuance of an initial license or a license transfer and the sources of funds to cover these operating costs. The review includes the applicant's projections of the market price of electric power in the market area of the plant, any Government-required charges for nuclear plant operations (e.g., non-bypassable wire charges), any long-term contracts the applicant has for the plant (such as a power purchase agreement), contracts or other arrangements with relevant transmission or grid reliability authorities that designate the plant as a "must-run" facility, and any other information relevant to the sources of revenues. The staff also reviews the adequacy of the applicant's plans to provide decommissioning funding and makes a finding on both the adequacy of the amount of the applicant's proposed funding and the mechanism or mechanisms proposed for providing funding assurance. In addition, the staff also reviews areas relating to insurance and foreign ownership, including the adequacy of negation plans should there be foreign ownership concerns.

2. Identification and Preliminary Analysis of Alternative Approaches

The following discussion describes the regulatory options that were considered for each of the two amendments, with analysis presented in Section 3.

2.1 Option 1 - No Action

2.1.1 No Amendment to 10 CFR 50.33(f)

Under Option 1, the no-action alternative, NRC would not amend the current regulations on financial qualifications reviews of non-electric utility applications for renewal of operating licenses for nuclear power plants. Non-electric utility power reactors applying for license renewals would continue to be required to submit financial qualifications information and NRC would continue to review this information. Option 1 is rejected because it continues to require the submission of financial qualifications information and thus maintains an unnecessary burden on non-electric utility power reactor licensees and NRC.

2.1.2 No New Section 10 CFR 50.76

Under Option 1, the no-action alternative, NRC would not create a new section requiring electric utility licensees that transition to non-electric utility status without a license transfer to submit financial qualifications information. Electric utility power reactors that transition to non-electric utility status would continue to make this transition without submitting financial qualifications information. Option 1 is rejected because it does not meet NRC's program goal of regulatory

efficiency and effectiveness since NRC would not have a formal system in place to determine whether electric utility power reactor licensees, who transition to non-electric utility status without a license transfer, remain financially qualified to conduct the activities under the license.

2.2 Option 2 - Final Action

2.2.1 Amendment to 10 CFR 50.33(f)

Under Option 2, NRC would provide relief through rulemaking from the current financial qualifications information submission requirements for non-electric utility applicants for license renewal, because the NRC is able to obtain financial qualifications information through other means when necessary. Specifically, NRC would eliminate the requirement that non-electric utility power reactor applicants submit financial qualifications information in license renewal applications. Option 2 is selected over Option 1 because it provides regulatory relief for non-electric utility power reactor licensees and reduces NRC's costs.

2.2.2 New Section 10 CFR 50.76

Under Option 2, NRC would establish a new requirement for electric utility licensees that transition to non-electric utility status without a license transfer to submit financial qualifications information at the time of transition. Option 2 is selected over Option 1 because it meets NRC's program goal of regulatory efficiency and effectiveness since NRC would have a formal system in place to determine whether electric utility power reactor licensees, who transition to non-electric utility status without a license transfer, remain financially qualified to conduct the activities under the license.

3. Estimation and Evaluation of Values and Impacts

This section describes the analysis conducted to identify and evaluate the values (benefits) and impacts (costs) of the two regulatory options. Section 3.1 identifies the attributes expected to be affected by the action. Section 3.2 describes how the analysis evaluates the values and impacts. Finally, Section 3.3 presents the details of the calculations used to generate the estimated values and impacts.

3.1 Identification of Affected Attributes

This section identifies the factors within the public and private sectors that the regulatory alternatives (discussed in Section 2) are expected to effect. These factors are classified as "attributes" using the list of potential attributes provided by NRC in Chapter 5 of its *Regulatory Analysis Technical Evaluation Handbook*.¹ Each attribute listed in Chapter 5 of the handbook was evaluated for applicability to this action. The following attributes are expected to have material costs or benefits due to the regulatory action:

- *Industry Implementation* -- Power reactor licensees incur a cost to read and familiarize themselves with the final rule.

¹ "Regulatory Analysis Technical Evaluation Handbook, Final Report," NUREG/BR-0184, Office of Nuclear Regulatory Research, January 1997.

- *Industry Operation* -- The final action amending section 50.33(f) results in a savings to non-electric utility power reactor licensees who apply for power reactor license renewals. The final action to create a new section 50.76, results in a new cost for licensees executing electric utility to non-electric utility transitions not involving an operating license transfer. Under section 50.76 licensees are required to submit the financial qualifications information that is required in section 50.33(f).
- *NRC Operation* -- The final action to amend section 50.33(f) results in a savings to NRC, since a review of financial qualifications information would no longer be required. NRC incurs costs associated with new section 50.76, which requires the review of financial qualifications information and issuance of a finding of financial qualification for each electric utility power reactor licensee that transitions to non-electric utility status without a license transfer.
- *Regulatory Efficiency* -- The amendment to section 50.33(f) reduces unnecessary burden on regulated entities. The amendment to section 50.76 provides for greater regulatory clarity. The benefits accruing to this attribute are evaluated qualitatively.

Attributes that are *not* expected to have material costs or benefits include the following:

- Public Health (Routine);
- Public Health (Accident);
- Occupational Health (Routine);
- Occupational Health (Accident);
- Off-site Property;
- On-site Property;
- NRC Implementation;
- Other Government;
- General Public;
- Improvements in Knowledge;
- Antitrust Considerations;
- Safeguards and Security Considerations; and
- Environmental Considerations.

NRC believes that the final rule would not adversely affect safeguards against radiation exposure to humans and property (i.e., public health and safety) because licensees still would be required to operate their reactors safely. Safe operation is confirmed through regular inspections of each licensee by on-site inspectors. The NRC maintains inspectors at plant sites to ensure safe operations and ensure compliance with the Commission's rules and operating licenses. The inspector, whose primary role is to ensure safe operations, would be able to identify any significant safety concerns that resulted from funding shortfalls, and the NRC has the authority to shut down a plant that is not being operated safely. In addition, the NRC reviews the financial and industry trade press to identify licensees that may require a full financial review to ensure the protection of public health and safety. Thus, for license renewal, the NRC believes that there is not a significant cost or benefit to public health and safety of not reviewing the financial qualifications of non-electric utility license renewal applicants.

No changes in the types or quantities of effluents that may be released offsite would result from this action, nor would there be any anticipated increase in the allowable individual or cumulative

occupational radiation exposure. The remaining attributes are not affected primarily because the changes are administrative in nature.

3.2 Analytical Methodology

This section describes the process used to evaluate values and impacts associated with the final rule. The *values* (benefits) of the rule include any desirable changes in affected attributes (e.g., reduction of regulatory burden) while the *impacts* (costs) include any undesirable changes in affected attributes (e.g., monetary costs). As described in Section 3.1, the attributes expected to be affected include the following:

- Industry Implementation;
- Industry Operation;
- NRC Operation; and
- Regulatory Efficiency.

This analysis relies on a qualitative evaluation for the affected attribute Regulatory Efficiency.²

The remaining three attributes (industry implementation, industry operation, and NRC operation) are evaluated quantitatively. Quantitative analysis requires a baseline characterization of the universe, including factors such as the anticipated number of non-electric utility power reactor license renewal applications and the number of electric utility to non-electric utility transitions without a license transfer. The analysis proceeds quantitatively for these attributes using the assumptions discussed in Section 3.2.2.

3.2.1 Model Design

This section describes the cost model used to calculate the values and impacts for the affected attributes of the final rule. The *values* are considered to be savings related to (1) non-electric utility licensees applying for license renewal no longer being required to prepare and submit financial qualifications information, and (2) NRC no longer having to review the financial qualifications information and issue a finding. These savings are due to the amendments to section 50.33(f). Although the action would result in enhanced regulatory efficiency, these benefits were not quantified.

The *impacts* of the action are considered to be costs related to (1) electric utility power reactor licensees that transition to non-electric utility status without a license transfer preparing and submitting financial qualifications information, and (2) NRC's review of the financial qualifications information and issuance of a financial qualifications finding. These impacts are due to the amendments to section 50.76. The additional impact of reading the regulations is also included in the analysis.

The analytical results are primarily driven by the number of non-electric utilities applying for license renewal and to a somewhat lesser extent the following four parameters, which are listed in descending order based on their effect on the results:

² The regulatory efficiency attribute is evaluated qualitatively by definition. See NRC's *Regulatory Analysis Technical Evaluation Handbook*, Section 5.5.14.

1. The licensee's burden for preparing and submitting financial qualifications information;
2. The number of licensees that transition from electric utility to non-electric utility status without license transfers;
3. The year when the license renewal application is submitted in relation to initial license expiration; and
4. NRC's burden for reviewing financial qualifications information.

There is a great deal of uncertainty associated with how many non-electric utility applications for license renewal will be submitted, since this is a business decision made by individual licensees. To account for this uncertainty, and the uncertainty in the four other parameters listed above, the analysis estimates reasonable lower and upper bounds for these parameters. The results also are presented with reasonable lower and upper bound values and impacts as well as best estimate values and impacts.

The values and impacts to licensees and NRC from the action were assessed as follows:

- *Estimate the costs to all power reactor licensees due to reading the regulations.*

For power reactor licensees, costs are calculated by multiplying the time required to review the new regulations by the hourly wage rate for licensee staff and by the total number of power reactor licensees.

- *Estimate the savings to non-electric utility power reactor licensees and NRC from no longer having to prepare and review financial qualifications information.*

For non-electric utility power reactor licensees, savings are calculated by multiplying the time required to prepare and submit the financial qualifications information by the hourly wage rate for licensee staff and by the number of non-electric utility power reactor license renewal applications.

For NRC, savings are calculated by multiplying the time required to review the financial qualifications information and issue a finding, by the hourly wage rate for NRC staff and by the number of non-electric utility power reactor license renewal applications.

- *Estimate the costs to NRC and electric utilities that transition to non-electric utility status without a license transfer.*

For electric utility power reactor licensees, costs are calculated by multiplying the time required to prepare and submit the financial qualifications information by the hourly wage rate for licensee staff and by the number of electric utility power reactors that transition to non-electric utility status without a license transfer.

For NRC, costs are calculated by multiplying the time required to review the financial qualifications information by the hourly wage rate for NRC staff and by the number of electric utility power reactors that transition to non-electric utility

status without a license transfer. Pre-decisional costs of analyzing and developing the revised requirements are not included in this analysis.³

3.2.2 Data and Assumptions

The following sections present the data and assumptions used in the analysis described in Section 3.2.1.

Power Reactor Licensees

1. *Power reactors are located at 65 sites containing 103 operating commercial power reactors.*⁴
2. *Each site containing power reactors is assumed to apply for license renewal independent of other power reactors that may be owned by the same licensee.*
3. *Eleven power reactor operating licensees, who own 32 power reactors, have already applied for or have announced they will apply for renewal before October 2003. These reactors are not included in the analysis. Sixteen power reactors at eight sites have already received a renewed operating license: Arkansas Nuclear One 1, Calvert Cliffs 1 and 2, Edwin I. Hatch 1 and 2, North Anna 1 and 2, Oconee 1, 2, and 3, Peach Bottom 2 and 3, Surry 1 and 2, and Turkey Point 3 and 4. NRC is currently reviewing the renewal applications for 14 reactors at nine sites: Catawba 1 and 2, Dresden 2 and 3, Fort Calhoun, Ginna, McGuire 1 and 2, Quad Cities 1 and 2, H.B. Robinson 2, St. Lucie 1 and 2, and Summer 1. One operating licensee has announced its intention to file for license renewal prior to October 2003, for the Farley 1 and 2 reactors.*
4. *Unless available information indicates otherwise, each licensee is assumed to renew the operating licenses for all power reactors at a given location at the same time. For example, Baltimore Gas and Electric applied for reactor license renewals for both its Calvert Cliffs 1 and 2 reactors at the same time although the reactors have different initial license termination years, 2014 and 2016 respectively. However, Entergy Nuclear Generation Company filed for renewal of its Arkansas Nuclear One Unit 1 reactor but did not file for renewal of its Arkansas Nuclear One Unit 2 reactor at the same time. Based on the number of reactor sites (i.e., 65) and the fact that Entergy did not apply for license renewal for both Arkansas Nuclear One Units 1 and 2 at the same time, the analysis assumes a maximum of 66 applications for license renewal. Because 18 sites have already applied for license renewal or plan to apply for license renewal prior to October 2003, the analysis includes only the remaining 48 potential license renewals during the time period of the analysis (i.e., October 2003 through 2035,*

³ Costs that are already incurred, such as all pre-decisional activities performed by NRC, are considered “sunk” costs and are not included in the analysis. See NRC’s *Regulatory Analysis Technical Evaluation Handbook*, Section 5.5.9 regarding pre-decisional activities.

⁴ Information regarding the number of reactors and their license expiration dates was obtained from NUREG-1350, “NRC Information Digest, 2002 Edition.”

which is the latest initial license expiration date for an operating power reactor license).

5. *The licensees for all operating power reactors are assumed to renew the initial operating license of each reactor.*⁵
6. *Only one license renewal/extension is sought for each reactor.* Due to the uncertainties associated with the number of non-electric utility licensees that might seek a second license renewal and the timing of a second renewal application, the analysis only models one license renewal for each reactor. This assumption may result in the total net benefit of the action being underestimated because the savings from the second license renewal applications from non-electric utility power reactor licensees are not included.
7. *Unless available information indicates otherwise, licensees file for operating license renewals 14 years before their initial license expires or in October 2003, whichever is later. In the case of multiple reactors located at the same site, the applications are filed 14 years before the earliest license expiration date.* The average and median number of years before initial license expiration that an application for renewal is submitted or is planned to be submitted is 14 years for the 60 reactors for which information is available. The lower and upper bounds for this parameter are assumed to be 10 years and 20 years, respectively. (see NUREG-1437, Volume 1, "Generic Environmental Impact Statement for License Renewal of Nuclear Plants." Issued in May 1996, "... most utilities are expected to begin preparation for license renewal about 10 to 20 years before expiration of their original operating licenses.") This assumption may result in the reported savings of the final rule to be overstated because 15 power reactors have current operating licenses that expire in less than 14 years and thus have modeled renewal dates that default to 2003.
8. *The number of operating license renewal applications per year from non-electric utility applicants is assumed to be 20 percent of license renewal applicants that year.* The actual number of renewal applications from non-electric utility applicants is expected to be correlated with the total number of renewal applications received from all power reactor licensees in any one year. The number of non-electric utility renewal applications is expected to be low because most renewals are expected to occur before electric utility power reactor licensees become non-electric utility licensees. Thus the analysis assumes a value of 20 percent of all renewal applications in each year. The lower and upper bounds for this parameter are assumed to be 10 percent and 30 percent, respectively. Due to the low number of licensees applying for license renewal in any one year, the calculation for the number of non-electric utility applicants is rounded to the nearest whole number. Thus the number of non-electric utility renewal applications will not necessarily equal 20 percent of the total number of all potential renewal applications (i.e., 20% of 48 potential renewal applications ≈

⁵ On June 8, 2000, Mr. William D. Magwood, IV, Director for the Department of Energy's Office of Nuclear Energy, Science, and Technology, in an address to the Subcommittee on Energy and Power, Committee on Commerce, U.S. House of Representatives, stated that the "overwhelming majority of the Nation's 103 operating plants can be expected to apply for and receive license renewals..."

- 9). See assumption number four for discussion and derivation of the 48 potential renewal applications.
9. *Power reactor licensees require 100 hours to prepare the financial qualifications information.*⁶ The lower and upper bounds for this parameter are assumed to be 50 hours and 200 hours, respectively.
 10. *The assumed average labor rate for licensee staff is \$80.00 per hour.*⁷
 11. *The number of electric utility power reactor licensees that transition to non-electric utilities without a license transfer is one every ten years, or five transitions, for the 50 year period 2003 to 2052.* Information on the potential number of transitions to non-electric utility status is unavailable because such a transition is a business decision that is unlikely to be made public prior to the actual transition. To date there have been no such transitions that have not been accompanied by an application for license transfer. The lower and upper bounds for this parameter are one transition every 20 years, or three transitions, and one transition every five years, or 10 transitions, respectively. The first transition is assumed to occur in 2003 for the lower bound, best estimate, and upper bound calculations.
 12. *Power reactor licensees require two hours each to review and familiarize themselves with the amended regulations.*
 13. *Table 3-1 shows the actual or modeled license renewal application submission dates for each reactor.* Information on actual or planned renewal application dates were obtained from the NRC web site and NRC Nuclear Reactor Regulation staff for 60 power reactors. These 60 power reactors are identified with their license renewal dates in bold. The 43 modeled renewal dates are the anticipated dates for renewal. The actual date of renewal for each of these 43 sites may be different by five or more years. Reactors that already have approved renewal applications have their renewed license expiration date in bold.

⁶ The hours estimate is based in information obtained from the Nuclear Energy Institute (NEI), which indicated that assembling financial qualifications information required 40 hours for a research reactor at a university. This application was not submitted to NRC. Since NRC may request additional information or clarification of the financial information once submitted, the stated time to prepare the financial information may underestimate the actual time required. Therefore, given that a company's financials are typically more complex than a university's and that the benchmark research reactor application was not submitted, the analysis uses an estimate of 100 hours for preparing the financial qualifications information.

⁷ The labor rate is based on the Nuclear Reactor Regulation (NRR) NRC staff average hourly rate as described in NUREG/BR-0184.

Table 3-1: Regulatory Analysis License Renewal Application Dates by Licensee

Licensee	Reactor name	Initial or Renewed License Expiration Date	Actual or Modeled Application Filing Date ^a
AmerGen Energy Company, LLC	Clinton 1	Sep-29-2026	Sep-2012
	Oyster Creek	Dec-15-2009	Oct-2003
	Three Mile Island 1	Apr-19-2014	Oct-2003
Arizona Public Service Co.	Palo Verde 1	Dec-31-2024	Dec-2010
	Palo Verde 2	Dec-09-2025	
	Palo Verde 3	Mar-25-2027	
Calvert Cliffs Nuclear Power Plant, Inc.	Calvert Cliffs 1	Jul-31-2034	Apr-1998
	Calvert Cliffs 2	Aug-31-2036	
Carolina Power & Light Co.	Brunswick 1	Sep-08-2016	Dec-2004
	Brunswick 2	Dec-27-2014	
	H.B. Robinson 2	Jul-31-2010	Jun-2002
	Shearon Harris 1	Oct-24-2026	Oct-2006
Detroit Edison Co.	Fermi 2	Mar-20-2025	Mar-2011
Dominion Nuclear Connecticut, Inc.	Millstone 2	Jul-31-2015	Jan-2004
	Millstone 3	Nov-25-2025	
Duke Energy Corp.	Catawba 1	Dec-06-2024	Jun-2001
	Catawba 2	Feb-24-2026	
	McGuire 1	Jun-12-2021	Jun-2001
	McGuire 2	Mar-03-2023	
	Oconee 1	Feb-06-2033	Jul-1998
	Oconee 2	Oct-06-2033	
	Oconee 3	Jul-19-2034	
Duquesne Light Co.	Beaver Valley 1	Jan-29-2016	Sep-2004
	Beaver Valley 2	May-27-2027	
Energy Northwest	Columbia Generating Station	Dec-20-2023	2008
Entergy Nuclear Operations, Inc.	Indian Point 2	Sep-28-2013	Oct-2003
	Indian Point 3	Dec-15-2015	
	James A. FitzPatrick	Oct-17-2014	Oct-2003
	Pilgrim 1	Jun-08-2012	Dec-2004
	Vermont Yankee	Mar-21-2012	Oct-2003
Entergy Operations, Inc.	Arkansas Nuclear 1	May-20-2034	Feb-2000
	Arkansas Nuclear 2	Jul-17-2018	Oct-2003
	Grand Gulf 1	Jun-16-2024	Jun-2010
	River Bend 1	Aug-29-2025	Aug-2011
	Waterford 3	Dec-18-2024	Dec-2010

Licensee	Reactor name	Initial or Renewed License Expiration Date	Actual or Modeled Application Filing Date ^a
Exelon Energy Co.	Braidwood 1	Oct-17-2026	Oct-2012
	Braidwood 2	Dec-18-2027	
	Byron 1	Oct-31-2024	Oct-2010
	Byron 2	Nov-06-2026	
	Dresden 2	Jan-10-2009	Jan-2003
	Dresden 3	Jan-12-2011	
	LaSalle County 1	May-17-2022	May-2008
	LaSalle County 2	Dec-16-2023	
	Limerick 1	Oct-26-2024	Oct-2010
	Limerick 2	Jun-22-2029	
	Peach Bottom 2	Aug-08-2033	Jul-2001
	Peach Bottom 3	Jul-02-2034	
	Quad Cities 1	Dec-14-2012	Jan-2003
	Quad Cities 2	Dec-14-2012	
FirstEnergy Nuclear Operating Company	Davis-Besse	Apr-22-2017	Dec-2004
	Perry 1	Mar-18-2026	Mar-2012
Florida Power Corp.	Crystal River 3	Dec-03-2016	Jan-2009
Florida Power & Light Co.	St. Lucie 1	Mar-01-2016	Nov-2001
	St. Lucie 2	Apr-06-2023	
	Turkey Point 3	Jul-19-2032	Sep-2000
	Turkey Point 4	Apr-10-2033	
FPL Energy Seabrook	Seabrook 1	Oct-17-2026	Oct-2012
Indiana Michigan Power Co.	D.C. Cook 1	Oct-25-2014	Nov-2003
	D.C. Cook 2	Dec-23-2017	
Nebraska Public Power District	Cooper 1	Jan-18-2014	Oct-2003
Nine Mile Point Nuclear Station, LLC	Nine Mile Point 1	Aug-22-2009	May-2004
	Nine Mile Point 2	Oct-31-2026	
Nuclear Management Co.	Monticello	Sep-08-2010	Oct-2003
	Prairie Island 1	Aug-09-2013	Oct-2003
	Prairie Island 2	Oct-29-2014	
Nuclear Management Co., LLC	Duane Arnold	Feb-21-2014	Oct-2003
	Palisades	Mar-14-2011	Oct-2003
	Point Beach 1	Oct-05-2010	Oct-2003
	Point Beach 2	Mar-08-2013	
Nuclear Management Corp.	Kewaunee	Dec-21-2013	Oct-2003
Omaha Public Power District	Fort Calhoun	Aug-09-2013	Jan-2002
Pacific Gas & Electric Co.	Diablo Canyon 1	Sep-22-2021	Sep-2007
	Diablo Canyon 2	Apr-26-2025	

Licensee	Reactor name	Initial or Renewed License Expiration Date	Actual or Modeled Application Filing Date ^a
PSEG Nuclear, LLC	Hope Creek 1	Apr-11-2026	2007
	Salem 1	Aug-13-2016	2007
	Salem 2	Apr-18-2020	
PPL Susquehanna, LLC	Susquehanna 1	Jul-17-2022	Jul-2006
	Susquehanna 2	Mar-23-2024	
Rochester Gas & Electric Corp.	Genoa	Sep-18-2009	Aug-2002
South Carolina Electric & Gas Co.	Summer 1	Aug-06-2022	Aug-2002
South Nuclear Operating Co.	Joseph M. Farley 1	Jun-25-2017	Sep-2003
	Joseph M. Farley 2	Mar-31-2021	
Southern California Edison Company	San Onofre 2	Oct-18-2022	Oct-2008
	San Onofre 3	Oct-18-2022	
Southern Nuclear Operating Co., Inc.	Edwin I. Hatch 1	Aug-06-2034	Mar-2000
	Edwin I. Hatch 2	Jun-13-2038	
	Vogtle 1	Jan-16-2027	Jun-2007
	Vogtle 2	Feb-09-2029	
STP Nuclear Operating Co.	South Texas Project 1	Aug-20-2027	Aug-2013
	South Texas Project 2	Dec-15-2028	
Tennessee Valley Authority	Browns Ferry 2	Jun-28-2014	Dec-2003
	Browns Ferry 3	Jul-02-2016	
	Sequoyah 1	Sep-17-2020	Dec-2007
	Sequoyah 2	Sep-15-2021	
	Watts Bar 1	Nov-09-2035	Nov-2021
TXU Electric Company	Comanche Peak 1	Feb-08-2030	Feb-2016
	Comanche Peak 2	Feb-02-2033	
Union Electric Co.	Callaway 1	Oct-18-2024	Oct-2010
Virginia Electric & Power Co.	North Anna 1	Apr-01-2038	May-2001
	North Anna 2	Aug-21-2040	
	Surry 1	May-25-2032	May-2001
	Surry 2	Jan-29-2033	
Wolf Creek Nuclear Operating Corp.	Wolf Creek 1	Mar-11-2025	Sep-2006

Source: NRC, Information Digest, 2002 Edition, NUREG-1350, Vol.14. (Source of data in table except where noted.)

^a Sources for actual renewal dates are NRC's website at www.nrc.gov/reactors/operating/licensing/renewal/applications.html and NRC NRR staff.

NRC

4. *NRC requires 200 hours to review one licensee's financial qualifications information.*⁸ NRC takes longer to review the financial qualifications information than the licensee take to prepare and submit the information for two reasons. First, much of the information the licensee submits has been prepared for other purposes and thus requires relatively less time to prepare and submit to NRC. Secondly, the NRC spends considerable time verifying and analyzing the submitted information, and then reporting the results of the analysis in the Safety Evaluation Report. As part of the analysis, NRC typically also conducts sensitivity analysis to evaluate the robustness of its conclusions. The lower and upper bounds for this parameter are assumed to be 150 hours and 250 hours, respectively.
5. *The average labor rate for NRC staff is estimated to be \$86.00 per hour.*⁹

Miscellaneous

6. *The analysis includes all license renewal applications expected to be received after October 1, 2003.* Therefore, the analysis discounts all future costs and savings back to 2003, using a 3 percent discount rate. All dollar amounts in the analysis are stated in 2003 dollars.
7. *The analysis uses a time horizon of 2053 for estimating the costs of electric utility to non-electric utility transitions without a license transfer.* Although electric utilities may transition to non-electric utility status after 2053, due to discounting the costs back to 2003, costs incurred after 2053 will not have a material effect on the results.

3.3 Analysis

This section outlines the derivation of the values and impacts for the two regulatory options. Under the action, each of the four attributes is discussed individually. However, some values and impacts are addressed qualitatively for reasons discussed in Section 3.2.

3.3.1 Option 1 - No action

By definition, this option does not result in any values or impacts.

⁸ The hours estimate is based on the time it takes NRR/NRC staff to review financial qualifications information submissions and render a finding.

⁹ The labor rate is based on the NRR/NRC staff average hourly rate.

3.3.2 Option 2 - Final Action

Industry Implementation

Impact: Read the amended regulations.

- (2 hours per site) x (\$80.00 per hour) x (65 reactor sites) = \$10,400

This amount is assumed to be incurred in 2003 and thus the amount is not discounted.

Industry Operation

Value: Non-electric utility power reactor operating license applicants will no longer submit financial qualifications information in license renewal applications.

- (100 hours per applicant) x (\$80.00 per hour) = \$8,000 per applicant

The number of non-electric utility applicants is estimated by taking 20 percent of all expected renewal applications in each year and rounding to the nearest whole number. Table 3-2 shows the lower bound, best estimate, and upper bound number of all renewal applicants and the estimated number of non-electric utility applicants for each year. The differences in the number of all applicants for the lower bound, best estimate, and upper bound shown in Table 3-2 are due to the timing of the renewal application submission in relation to the initial license expiration date (i.e., 10 years, 14 years, and 20 years, respectively) and the assumed percent of all renewal applications that are from non-electric utility licensees (i.e., 10 percent, 20 percent, and 30 percent, respectively).

For each of the nine non-electric utility applicants in the analysis, the \$8,000 amount is then discounted back from the date of the application to 2003.¹⁰ These discounted amounts are added across all nine applicants to yield a total savings of \$65,700. Table 3-3 shows the number of non-electric utility applicants in each year and the licensee savings (both discounted and not discounted) associated with these applications. The lower and upper bounds for the total discounted amounts are estimated to be \$10,800 and \$214,900, respectively. As shown in Table 3-2, in the lower bound estimate there are three non-electric utility renewal applications and in the upper bound there are 14 non-electric utility renewal applications. The lower and upper bound estimates represent the combined lower and upper bound values for the two parameters mentioned in the paragraph above and the licensee burden to prepare and submit the financial qualifications information. For example, in the lower bound estimate, the time assumed for licensees to prepare and submit financial qualification information is 50 hours, so the savings is \$4,000 per applicant (i.e., (50 hours per applicant) x (\$80.00 per hour)). The \$4,000 is then discounted back to 2003 for each of the three applicants shown in Table 3-2.

¹⁰ The individual amounts are discounted back to 2003 using the following formula: Discounted Savings = Savings x (1/(1+r)^t). Where "Savings" is the undiscounted amount, "r" is the discount rate of three percent, and "t" is the difference in time between when the application was submitted and the year 2003.

Table 3-2: Number of Operating License Renewal Applications by Year

Year	Number of Applications					
	Lower Bound		Best Estimate		Upper Bound	
	All Applications	Non-Electric Utility Applications	All Applications	Non-Electric Utility Applications	All Applications	Non-Electric Utility Applications
2003	11	1	15	3	18	5
2004	10	1	6	1	12	4
2005	0	0	0	0	2	1
2006	3	0	3	1	7	2
2007	4	0	5	1	5	2
2008	1	0	3	1	1	0
2009	1	0	1	0	1	0
2010	0	0	6	1	1	0
2011	1	0	2	0	0	0
2012	2	0	4	1	0	0
2013	0	0	1	0	0	0
2014	6	1	0	0	0	0
2015	2	0	0	0	1	0
2016	4	1	1	0	0	0
2017	1	0	0	0	0	0
2020	1	0	0	0	0	0
2021	0	0	1	0	0	0
2025	1	0	0	0	0	0
Total	48	3	48	9	48	14

Note: The years 2018, 2019, 2022, 2023, and 2024 are not included in the table because the analysis models that no renewal applications would be submitted in these years. The table stops at the year 2025 because no renewal applications are modeled to be submitted after this year.

Impact: When an electric utility to non-electric utility transition occurs that does not involve the transfer of a license, the licensee will incur a cost to prepare financial qualifications information.

- (100 hours per transition) x (\$80.00 per hour) = \$8,000 per transition

The number of transitions to non-electric utility status is estimated by assuming there is one transition every ten years for the 50 year period. Thus, in the best estimate, there are five transitions. For each of the five transitions, the \$8,000 amount is then discounted back from the date of the transition to 2003. These discounted amounts are added across all five transitions to yield a total incurred cost of \$24,100. Table 3-4 shows the number of transitions in each year and the licensee costs (both discounted and not discounted) associated with these transitions. The lower and upper bounds for this impact are estimated to be costs of \$7,400 and \$89,900, respectively. In the lower bound estimate there are three transitions, and in the upper bound estimate there are ten transitions. The lower and upper bound estimates

represent the combined lower and upper bound values for the number of transitions and the licensee burden to prepare and submit the financial qualifications information. For example, in the lower bound estimate, the time assumed for licensees to prepare and submit financial qualification information is 50 hours, so the cost is \$4,000 per applicant (i.e., (50 hours per applicant) x (\$80.00 per hour)). The \$4,000 is then discounted back to 2003 for applications submitted in 2003, 2023, and 2043.

Table 3-3: Number of Non-Electric Utility Operating License Renewal Applications Per Year and the Savings Associated with the Applications

Year	Number of Non-Electric Utility Applications	Licensee Savings	Discounted Licensee Savings	NRC Savings	Discounted NRC Savings
2003	3	\$ 24,000	\$ 24,000	\$ 51,600	\$ 51,600
2004	1	\$ 8,000	\$ 7,800	\$ 17,200	\$ 16,700
2005	0	\$ 0	\$ 0	\$ 0	\$ 0
2006	1	\$ 8,000	\$ 7,300	\$ 17,200	\$ 15,700
2007	1	\$ 8,000	\$ 7,100	\$ 17,200	\$ 15,300
2008	1	\$ 8,000	\$ 6,900	\$ 17,200	\$ 14,800
2009	0	\$ 0	\$ 0	\$ 0	\$ 0
2010	1	\$ 8,000	\$ 6,500	\$ 17,200	\$ 14,000
2011	0	\$ 0	\$ 0	\$ 0	\$ 0
2012	1	\$ 8,000	\$ 6,100	\$ 17,200	\$ 13,200
Total	9	\$ 72,000	\$ 65,700	\$ 154,800	\$ 141,300

Note: The table stops at the year 2012 because no renewal applications from non-electric utility applicants are modeled to be submitted after this year.

Numbers are rounded to the nearest 100.

The savings are discounted at a rate of three percent.

Table 3-4: Number of Transitions to Non-Electric Utility Status Per Year and the Costs Associated with the Transitions

Year	Number of Transitions	Licensee Cost	Discounted Licensee Cost	NRC Cost	Discounted NRC Cost
2003	1	\$ 8,000	\$ 8,000	\$ 17,200	\$ 17,200
2013	1	\$ 8,000	\$ 6,000	\$ 17,200	\$ 12,800
2023	1	\$ 8,000	\$ 4,400	\$ 17,200	\$ 9,500
2033	1	\$ 8,000	\$ 3,300	\$ 17,200	\$ 7,100
2043	1	\$ 8,000	\$ 2,400	\$ 17,200	\$ 5,300
Total	5	\$ 40,000	\$ 24,100	\$ 80,000	\$ 51,900

Note: Only the years where a transition is modeled in the analysis are included in the table.

Numbers are rounded to the nearest 100.

The savings are discounted at a rate of three percent.

NRC Operation

Value: NRC will no longer incur costs associated with reviewing financial qualifications information in applications for non-electric utility power reactor operating license renewals.

- $(200 \text{ hours per applicant}) \times (\$86.00 \text{ per hour}) = \$17,200 \text{ per applicant}$

The number of non-electric utility applicants is estimated by taking 20 percent of all expected renewal applications in each year and rounding to the nearest whole number. Table 3-2 shows the lower bound, best estimate, and upper bound number of all renewal applicants and the estimated number of non-electric utility applicants for each year. The differences in the number of all applicants for the lower bound, best estimate, and upper bound shown in Table 3-2 are due to the timing of the renewal application submission in relation to the initial license expiration date (i.e., 10 years, 14 years, and 20 years, respectively) and the assumed percent of all renewal applications that are from non-electric utility licensees (i.e., 10 percent, 20 percent, and 30 percent, respectively).

For each of the nine non-electric utility applicants in the analysis, the \$17,200 amount is then discounted back from the date of the application to 2003. These discounted amounts are added across all nine applicants to yield a total savings of \$141,300. Table 3-3 shows the number of non-electric utility applicants in each year and NRC's savings (both discounted and not discounted) associated with these applications. The lower and upper bounds for the total discounted amounts are estimated to be \$34,700 and \$288,800, respectively. In the lower bound estimate there are three non-electric utility renewal applications and in the upper bound there are 14 non-electric utility renewal applications. The upper bound estimate is significantly higher in part because the renewal applications are submitted sooner than in the best estimate, thus yielding larger savings on a discounted dollar basis. The lower and upper bound estimates represent the combined lower and upper bound values for the two parameters mentioned in the paragraph above and the NRC burden to review the financial qualifications information. For example, in the lower bound estimate, the time assumed for NRC to review the financial qualification information is 150 hours, so the savings is \$12,900 per applicant (i.e., $(150 \text{ hours per applicant}) \times (\$86.00 \text{ per hour})$). The \$12,900 is then discounted back to 2003 for each of the three applicants shown in Table 3-2.

Impact: NRC will incur the costs associated with the review of financial qualifications information for each electric utility to non-electric utility transition not involving a license transfer.

- $(200 \text{ hours per transition}) \times (\$86.00 \text{ per hour}) = \$17,200 \text{ per transition}$

The number of transitions to non-electric utility status is estimated by assuming there is one transition every ten years for the 50 year period. Thus, in the best estimate, there are five transitions. For each of the five transitions, the \$17,200 amount is discounted back from the date of the transition to 2003. These discounted amounts are added across all five transitions to yield a total incurred cost of \$51,900. Table 3-4 shows the number of transitions in each year and NRC's costs (both discounted and not discounted) associated with these transitions. The lower and upper bounds for this impact are estimated to be costs of \$24,000 and \$120,800, respectively. In the lower bound estimate there are three transitions, and in the upper bound estimate there are ten transitions. The lower and upper bound estimates represent the combined lower and upper bound values for the number of transitions and the

NRC burden to review the financial qualifications information. For example, in the lower bound estimate, the time assumed for NRC to review the financial qualification information is 150 hours, so the cost is \$12,900 per applicant (i.e., (150 hours per applicant) x (\$86.00 per hour)). The \$12,900 is then discounted back to 2003 for applications submitted in 2003, 2023, and 2043.

Regulatory Efficiency

Value: Improved consistency of regulations and reduction in burden for non-electric utility power reactors applying for license renewal.

4. Results

The quantitative results for the affected attributes, industry operation and NRC operation, are presented in Tables 4-1 and 4-2 by the CFR sections that would be changed by the action. Because the industry implementation attribute is affected by amendments to both sections this attribute is included only in the combined summary table, Table 4-3. Tables 4-1 and 4-2 show that the benefits are due to the changes in section 50.33(f) and the costs are due to the changes in section 50.76. The total net benefit of the action is summarized in Table 4-3. As these tables show, there are no benefits or impacts associated with Option 1 (the no-action alternative). One attribute, regulatory efficiency, could be analyzed only on a qualitative basis.¹¹ Table 4-4 summarizes the qualitative results of the analysis.

Table 4-1: Quantitative Results for Amendments to Section 50.33(f) (Present Value)

Attribute	Option 1:No Action	Option 2: Final Action
<i>Industry Operation</i>		
Values	\$0	\$65,700
Impacts	\$0	\$0
<i>NRC Operation</i>		
Values	\$0	\$141,300
Impacts	\$0	\$0
Total	\$0	\$207,100

¹¹ See Section 3.2 for a discussion of the reasons that quantitative analysis is not feasible for some of the affected attributes.

Table 4-2: Quantitative Results for Amendments to Section 50.76 (Present Value)

Attribute	Option 1: No Action	Option 2: Final Action
<i>Industry Operation</i>		
Values	\$0	\$0
Impacts	\$0	(\$24,100)
<i>NRC Operation</i>		
Values	\$0	\$0
Impacts	\$0	(\$51,900)
Total	\$0	(\$76,000)

Table 4-3: Quantitative Results for All Amendments (Present Value)

Attribute	Option 1: No Action	Option 2: Final Action
<i>Industry Operation</i>		
Values	\$0	\$65,700
Impacts	\$0	(\$24,100)
<i>NRC Operation</i>		
Values	\$0	\$141,300
Impacts	\$0	(\$51,900)
<i>Industry Implementation</i>		
Values	\$0	\$0
Impacts	\$0	(\$10,400)
Total	\$0	\$120,600

Table 4-4: Qualitative Results

Regulatory Options	Qualitative Values/Impacts
Option 1: No Action	<i>Values:</i> None <i>Impacts:</i> None
Option 2: Final Action	<i>Values:</i> <i>Regulatory Efficiency</i> - Increase in regulatory certainty, consistency, and clarity. Increase in the consistency of treatment of licensees. <i>Impacts:</i> None

Option 2, the final rule, results in both qualitative and quantitative benefits over the no-action option. The qualitative benefits include increased regulatory efficiency relative to the no-action option. In particular, Option 2 provides greater regulatory certainty and clarity than the no-action option, and would ensure consistent treatment across power reactor licensees. Greater regulatory clarity is gained because the current regulations do not address the transition from electric utility to non-electric utility status. These increases in regulatory efficiency are believed to be significant. Under Option 2, the elimination of the need for non-electric utility power reactor license renewal applicants to submit financial qualifications information is expected to save these licensees \$65,700 in preparation costs and to save NRC \$141,300 in review costs.

The final rule also has impacts to both electric utility power reactor licensees and NRC due to a new requirement for submitting financial qualifications information. These impacts are incurred only when an electric utility power reactor licensee transitions to non-electric utility status without a license transfer. The deregulation of the electric industry makes this type of transition possible. However, the probability of such a transition occurring is expected to be low because these transitions are expected to also include a license transfer, which are addressed under section 50.80. The new requirement is expected to cost electric utility licensees \$24,100 in preparation costs and to cost the NRC \$51,900 in review costs. In addition, reviewing the new regulations would cost all power reactor licensees a total of \$20,800.

The total net benefit of the final rule is estimated to be \$120,600. The lower and upper bounds on the net benefit are estimated to be savings of \$3,700 and \$282,700, respectively. The lower and upper bound estimates include the combined lower or upper bound values for each of the parameters varied in the analysis. Table 4-5 summarizes the five parameters' lower and upper bound values used in the analysis. Table 4-6 summarizes the combined lower and upper bound sensitivity analysis results for each of the amendments.

Table 4-5: Parameter Values

Parameter	Lower Bound	Best Estimate	Upper Bound
Number of years prior to licensee expiration that renewal application is submitted (years)	10 yrs	14 yrs	20 yrs
NRC burden to review financial qualifications information (hours)	150 hrs	200 hrs	250 hrs
Licensee burden to prepare financial qualifications information (hours)	50 hrs	100 hrs	200 hrs
Percent of renewal applications that are from non-electric utility licensees (%)	10%	20%	30%
The number of transitions of utilities from electric utility to non-electric utility status during the 50 year analytical period	3 transitions	5 transitions	10 transitions

Table 4-6: Sensitivity Analysis Results for All Amendments (Present Value)

Attribute	Lower Bound	Upper Bound
<i>Industry Operation</i>		
Values	\$10,800	\$214,900
Impacts	(\$7,400)	(\$89,900)
<i>NRC Operation</i>		
Values	\$34,700	\$288,800
Impacts	(\$24,000)	(\$120,800)
<i>Industry Implementation</i>		
Values	\$0	\$0
Impacts	(\$10,400)	(\$10,400)
Total	\$3,700	\$282,700

5. Backfit Analysis

In accordance with 10 CFR 50.109, NRC has determined that the final rule does not constitute a backfit because the amendment to section 50.33(f) and the new section 50.76 set forth information and reporting requirements, which do not constitute regulatory actions to which the backfit rule applies. In addition, the rulemaking voluntarily relaxes the current requirement for submission of financial qualifications information by non-electric utilities seeking renewal of power reactor operating licenses. Such voluntary relaxations do not impose a requirement which is an essential element of “backfitting” as defined in section 50.109(a)(1). Therefore, a backfit analysis is not required.

6. Decision Rationale

- Option 1, the no-action alternative, with respect to non-electric utility power reactors, would retain the existing requirement for nuclear licensees to submit financial qualifications information with their renewal applications. The final rule removes the requirement for non-electric utility power reactors to submit financial qualifications information with their operating license renewal applications, thus reducing the burden on non-electric utility power reactor licensees. Relative to Option 1, this aspect of the final rule yields net benefits to licensees and NRC without additional risk to the public.
- Option 1, the no-action alternative, with respect to electric utility power reactor licensees that make the transition to non-electric utility status, would retain the existing lack of a requirement for electric utilities to submit financial qualifications information during the transition process. The final rule establishes a new requirement for the submission of financial qualifications information for electric utility power reactor licensees that make the transition to non-electric utility status without a license transfer. Thus, this aspect of the final rule may yield a net cost to licensees and NRC. Although the analysis included five transitions in a 50 year period, due to the uncertainty that any electric utility will

make the transition to non-electric utility status without a license transfer, these costs to licensees and NRC may never be incurred.

3. The new requirement established by the final rule completes a set of requirements for NRC's review of financial qualifications that would allow total coverage of all relevant triggering events during the normal operating life of licensed power reactors. The relevant triggering events are initial operating licensing, license transfer to another entity, transition from electric utility to non-electric utility status, and evidence of a decline in licensee financial status. Table 1-1 shows the financial qualifications submission requirements for these four triggering events. Providing this coverage of all relevant triggering events is expected to enhance public confidence.
4. The requirements under the final rule results in enhanced regulatory efficiency because they would (1) provide greater regulatory certainty and clarity than Option 1, (2) ensure consistent treatment among all power reactor licensees, and (3) provide more appropriate requirements for non-electric utility power reactor licensees.
5. For the reasons discussed in (1) through (4) above, the staff recommended rulemaking alternative Option 2.

7. Implementation

The final rule will become effective 30 days after publication in the *Federal Register*.