Mile Island), which consists of a PWR located in Dauphin County, Pennsylvania; and DPR-39 and DPR-48 for the Zion Nuclear Power Station, Units 1 and 2 (Zion), which consists of two PWRs located in Lake County, Illinois. The licenses provide, among other things, that the facilities are subject to all the rules, regulations, and orders of the Nuclear Regulatory Commission (NRC, Commission) now or hereafter in effect.

2. Request/Action

Title 10 of the Code of Federal Regulations (10 CFR), Section 50.54(a)(3), requires that changes to the quality assurance program description that do not reduce commitments must be submitted to the NRC in accordance with the reporting requirements of 10 CFR 50.71(e).

The regulation at 10 CFR 50.71(e)(4) requires that revisions to the final safety analysis report (FSAR) be submitted annually or six months after a refueling outage, provided the interval between updates does not exceed 24 months. As an alternative, the licensees propose that changes to the quality assurance program that do not reduce commitments be submitted on a 24month calendar schedule, not to exceed 24 months from the previous submittal. The exemption would apply to each of the licensees' plants identified above.

3. Discussion

Pursuant to 10 CFR 50.12, the Commission may, upon application by any interested person or upon its own initiative, grant exemptions from the requirements of 10 CFR part 50 when (1) the exemptions are authorized by law, will not present an undue risk to public health and safety, and are consistent with the common defense and security; and (2) when special circumstances are present. Special circumstances are present whenever, according to 10 CFR 50.12(a)(2)(ii), "Application of the regulation in the particular circumstances would not serve the underlying purpose of the rule or is not necessary to achieve the purpose of the rule". Operational quality assurance programs are generally described in Chapter 17.2 of a licensee's Updated Safety Analysis Report (USAR) or, alternately, in a topical report incorporated into the USAR by reference. The licensees' quality assurance program, described in the Quality Assurance Topical Report (QATR), is common to the 21 units requesting the exemption. Compliance with 10 CFR 50.54(a)(3) would require these changes to be submitted annually

or after a refueling outage for each of the licensees' units.

The licensees stated that the proposed exemption is strictly administrative and does not reduce commitments or effectiveness of the quality assurance program as described in the QATR, and does not adversely affect plant equipment, operation, or procedures. The exemption will not alter the manner in which changes to the common QATR are evaluated in order to ensure that there is no reduction in commitment. Changes to the common QATR will be reviewed through the existing applicable administrative and programmatic control processes to ensure that QATR changes are properly evaluated and implemented. The methods and procedures used to evaluate changes to the common QATR are not changed or modified.

The underlying purpose of the rule is to ensure that periodic submittals required under 10 CFR 50.54(a)(3) would allow the NRC staff to provide regulatory oversight of changes to the licensees' quality assurance program, and to ensure that the changes are consistent with the regulations.

The exemption requested by the licensees only extends the reporting period, and does not exceed the time period between successive updates established by 10 CFR 50.71(e). Reporting of routine and administrative changes to the quality assurance program that do not reduce commitments for each of the licensees' units over a 2-year period is not consistent with the underlying purpose of the rule, nor is it necessary to achieve the purpose of the rule. Therefore, the NRC staff concludes that, pursuant to 10 CFR 50.12(a)(2)(ii), special circumstances are present.

The NRC staff examined the licensees' rationale that supports the exemption request and concluded that the alternative reporting cycle of 24 months for submitting QATR changes specified under 10 CFR 50.54(a)(3) provides adequate control and is consistent with the underlying purpose of 10 CFR 50.54(a)(3).

Based on the foregoing, the NRC staff concludes that the changes specified in 10 CFR 50.54(a)(3) are administrative and routine in nature. Also, the NRC staff concludes that the requested exemption would not result in any significant reduction in the effectiveness of the quality assurance program implemented by the licensees. Therefore, the NRC staff concludes that the proposed exemption would not present an undue risk to the public health and safety.

4. Conclusion

Accordingly, the Commission has determined that pursuant to 10 CFR Part 50.12, the exemption is authorized by law, will not present an undue risk to the public health and safety, and is consistent with the common defense and security. Also, special circumstances are present. Therefore, the Commission hereby grants the licensees an exemption from the requirements of 10 CFR 50.54(a)(3) for Braidwood, Byron, Clinton, Dresden, LaSalle, Limerick, Oyster Creek, Peach Bottom, Quad Cities, Three Mile Island, and Zion stations.

Pursuant to 10 CFR 51.32, the Commission has determined that the granting of this exemption will have no significant effect on the quality of the human environment (71 FR 29359).

This exemption is effective upon issuance.

Dated at Rockville, Maryland, this 27th day of June 2006.

For the Nuclear Regulatory Commission. Catherine Haney,

Director, Division of Operating Reactor Licensing, Office of Nuclear Reactor Regulation.

[FR Doc. E6-10622 Filed 7-6-06; 8:45 am] BILLING CODE 7590-01-P

NUCLEAR REGULATORY COMMISSION

[Docket Nos. STN 50-454 and STN 50-455]

Exelon Generation Company, LLC; Byron Station, Unit Nos. 1 and 2; Exemption

1.0 Background

The Exelon Generation Company, LLC (Exelon, licensee) is the holder of Facility Operating License Nos. NPF-37 and NPF-66 which authorize operation of the Byron Station Unit 1 and Unit 2, respectively. The licenses provide, among other things, that the facility is subject to all rules, regulations, and orders of the Nuclear Regulatory Commission (NRC, Commission) now or hereafter in effect.

The facility consists of two pressurized-water reactors located in Ogle County, Illinois.

2.0 Request/Action

Pursuant to Title 10 of the Code of Federal Regulations (10 CFR) Section 50.12, "Specific exemptions," Exelon has requested an exemption from 10 CFR 50.44, "Combustible gas control system for nuclear power reactors"; 10 CFR 50.46, "Acceptance criteria for emergency core cooling systems [ECCS] for light-water nuclear power reactors"; and Appendix K to 10 CFR part 50, "ECCS Evaluation Models." The regulation at 10 CFR 50.44 specifies requirements for the control of hydrogen gas generated after a postulated loss-ofcoolant accident (LOCA) for reactors fueled with zirconium cladding. Section 50.46 contains acceptance criteria for ECCS for reactors fueled with zircaloy or ZIRLOTM cladding. Appendix K to 10 CFR part 50 requires that the Baker-Just equation be used to predict the rates of energy release, hydrogen concentration, and cladding oxidation from the metalwater reaction.

The exemption request relates solely to the specific types of cladding material specified in these regulations. As written, the regulations presume the use of zircaloy or ZIRLOTM fuel rod cladding. Thus, an exemption from the requirements of 10 CFR 50.44, 10 CFR 50.46, and Appendix K to 10 CFR part 50, is needed to irradiate lead test assemblies (LTAs) comprised of the AXIOMTM developmental clad alloys at Byron Station, Unit Nos. 1 and 2.

3.0 Discussion

3.1 Material Design

3.1.1 Fuel Material Design

In order to meet future demands of the nuclear industry, Westinghouse is evaluating the in-reactor performance of several developmental alloys. The licensee states that the material properties and mechanical performance of the advanced cladding alloys are expected to be similar to Zircaloy-4 and ZIRLO[™], and that any difference in phase transition temperatures and mechanical strength will be considered in the LTA fuel rod design evaluation. Further, preliminary autoclave testing indicates that the advanced alloys exhibit acceptable corrosion resistance. This is consistent with the NRC staff's expectation that unirradiated properties of any advanced cladding alloy will be accounted for in the LTA fuel rod design evaluation.

The licensee's September 23, 2005, letter stated:

The current licensed fuel performance code predictions for the developmental cladding will be compared to post-irradiation examination data at Byron Station. If significantly adverse observations are found relative to predictions, the adverse rod(s) will either be removed and the fuel assembly will be reconstituted with suitable replacement rods, or the entire fuel assembly will be removed from the following fuel cycle(s) until deviations are understood and addressed.

Where appropriate, concurrent data obtained from other LTA programs for the same developmental claddings will be factored into the assessment of the LTAs at Byron Station. Specifically, before the assemblies are reinserted, all available information will be reviewed to ensure existing design assumptions remain valid.

Based upon the limited number of advanced alloy fuel rods placed in nonlimiting core locations, specifically accounting for significant deviations in unirradiated material and mechanical properties, and an LTA post-irradiation examination program aimed at qualifying model predictions and understanding deviations, the NRC staff finds the LTA mechanical design acceptable for Byron Station Unit Nos. 1 and 2.

3.1.2 Core Physics and Non-LOCA Analysis

The exemption request relates solely to the specific types of cladding material specified in the regulations. No new or altered design limits for purposes of 10 CFR Part 50, Appendix A, General Design Criterion 10, "Reactor design," need to be applied or are required for this program.

The standard reload methodologies will be applied to the advanced cladding alloys. Nuclear design evaluations will assure that LTAs will be placed in non-limiting core locations. As such, additional thermal margin to design limits will be maintained between LTA fuel rods and the hot rod evaluated in safety analyses. Thermalhydraulic and non-LOCA evaluations will confirm that the LTAs are bounded by the current analysis of record.

Based upon testing to date it is not anticipated that any of the advanced cladding fuel rods would fail during normal operation. However, if any failures occurred, their effects would be well within technical specification limits for doses and, in all cases, core coolable geometry would be maintained. The NRC staff agrees that the placement of a limited number of advanced alloy fuel rods in non-limiting locations would not challenge reported dose consequences nor core coolability.

Based upon the limited number of advanced alloy fuel rods placed in nonlimiting core locations, the use of approved models and methods, and expected material performance, the NRC staff finds that the irradiation of up to four LTAs at the Byron Station will not result in unsafe operation nor violation of specified acceptable fuel design limits. Furthermore, in the event of a design-basis accident, these LTAs will not promote consequences beyond those currently analyzed.

3.2 Regulatory Evaluation

Pursuant to 10 CFR 50.12, the Commission may, upon application by any interested person or upon its own initiative, grant exemptions from the requirements of 10 CFR Part 50 when (1) the exemptions are authorized by law, will not present an undue risk to public health or safety, and are consistent with the common defense and security; and (2) when special circumstances are present.

3.2.1 10 CFR 50.44

The underlying purpose of 10 CFR 50.44 is to assure that means are provided for the control of hydrogen gas that may be generated following a LOCA. The licensee has provided a means for controlling hydrogen gas and has previously considered the potential for hydrogen gas generation stemming from a metal-water reaction. Based upon the material composition of these alloys, which is similar to other licensed zirconium alloys, the high temperature metal-water reaction rates are expected to be similar. Due to the limited number and anticipated performance of the advanced cladding fuel rods, the previous calculations of hydrogen production resulting from a metal-water reaction will not be significantly changed. As such, the limitations of 10 CFR 50.44 related to cladding material is not necessary for the licensee to achieve the underlying purpose of the rule in these circumstances.

3.2.2 10 CFR 50.46

The underlying purpose of 10 CFR 50.46 is to establish acceptance criteria for ECCS performance in response to LOCAs. Due to the limited number of advanced alloy fuel rods, any change in the post-LOCA ductility characteristics of the advanced alloy fuel rods (relative to the 2200 °F peak cladding temperature and 17 percent effective cladding reacted) would not challenge core coolable geometry. Westinghouse performs cycle-specific reload evaluations to assure that 10 CFR 50.46 acceptance criteria are satisfied and will include the LTAs in such analyses. Thus, the limitations of 10 CFR 50.46 related to cladding material are not necessary for the licensee to achieve the underlying purpose of the rule in these circumstances.

3.2.3 10 CFR 50, Appendix K

Paragraph I.A.5 of Appendix K to 10 CFR part 50 states that the rates of energy, hydrogen concentration, and cladding oxidation from the metal-water reaction shall be calculated using the Baker-Just equation. Since the Baker-Just equation presumes the use of zircaloy clad fuel, strict application of the rule would not permit use of the equation for the advanced cladding alloys for determining acceptable fuel performance. Based upon the material composition of these alloys, which is similar to other licensed zirconium alloys, the high temperature metal-water reaction rates are expected to be similar. Because of the limited number of AXIOMTM clad fuel rods and the similarity in material composition to other advanced cladding fuel rods, the NRC staff concludes that the application of the Baker-Just equation in these conditions is acceptable. Thus, application of 10 CFR Part 50 Appendix K, Paragraph I.A.5 is not necessary for the licensee to achieve the underlying purpose of the rule in these circumstances.

3.2.4 Special Circumstances

In summary, the NRC staff reviewed the licensee's request of proposed exemption to allow up to four LTAs containing fuel rods with AXIOMTM cladding. Based on the NRC staff's evaluation, as set forth above, the NRC staff considers that granting the proposed exemption will not defeat the underlying purpose of 10 CFR 50.46, 10 CFR 50.44, or Appendix K to 10 CFR Part 50. Accordingly, special circumstances, are present pursuant to 10 CFR 50.12(a)(2)(ii).

3.2.5 Other Standards in 10 CFR 50.12

The NRC staff examined the rest of the licensee's rationale to support the exemption request, and concluded that the use of AXIOM[™] would satisfy 10 CFR 50.12(a) as follows:

(1) The requested exemption is authorized by law:

No law precludes the activities covered by this exemption request. The Commission, based on technical reasons set forth in rulemaking records, specified the specific cladding materials identified in 10 CFR 50.44, 10 CFR 50.46, and 10 CFR Part 50, Appendix K. Cladding materials are not specified by statute.

(2) The requested exemption does not present an undue risk to the public health and safety as stated in the licensee's exemption request:

The LTA safety evaluation will ensure that the acceptance criteria of 10 CFR 50.46, 10 CFR 50.44, and 10 CFR 50 Appendix K are met following insertion of the assemblies containing AXIOM[™] material. Fuel assemblies using AXIOM[™] cladding will be evaluated using NRC-approved analytical methods and will address the changes in the cladding material properties. The safety analysis for Byron Station Units 1 and 2 is supported by the applicable Technical Specifications. The Byron Station Units 1 and 2 reload cores containing AXIOM[™] cladding will continue to be operated in accordance with the operating limits specified in the Technical Specifications. LTAs using AXIOMTM cladding will be placed in non-limiting core locations. Therefore, this exemption will not pose an undue risk to public health and safety.

The NRC staff has evaluated these considerations as set forth in Section 3.1 of this exemption. For the reasons set forth in that section, the NRC staff concludes that AXIOM[™] may be used as a cladding material for no more than four LTAs to be placed in non-limiting core locations during Byron's next refueling outage, and that an exemption from the requirements of 10 CFR 50.44, 10 CFR 50.46, and 10 CFR part 50, Appendix K does not pose an undue risk to the public health and safety.

(3) The requested exemption will not endanger the common defense and security:

The common defense and security are not affected and, therefore, not endangered by this exemption.

4.0 Conclusion

Accordingly, the Commission has determined that, pursuant to 10 CFR 50.12(a), the exemption is authorized by law, will not present an undue risk to the public health and safety, and is consistent with the common defense and security. Also, special circumstances are present. Therefore, the Commission hereby grants Exelon an exemption from the requirements of 10 CFR 50.44, 10 CFR 50.46 and 10 CFR Part 50, Appendix K, for Byron Station, Unit Nos. 1 and 2.

Pursuant to 10 CFR 51.32, the Commission has determined that the granting of this exemption will not have a significant effect on the quality of the human environment (71 FR 32144).

This exemption is effective upon issuance.

Dated at Rockville, Maryland, this 30th day of June 2006.

For the Nuclear Regulatory Commission. **Catherine Haney**,

Director, Division of Operating Reactor Licensing, Office of Nuclear Reactor Regulation.

[FR Doc. E6–10623 Filed 7–6–06; 8:45 am] BILLING CODE 7590–01–P

NUCLEAR REGULATORY COMMISSION

Request for Comments on the Nuclear Regulatory Commission's Low Level Radioactive Waste Program

AGENCY: U.S. Nuclear Regulatory Commission.

ACTION: Request for comments on the Nuclear Regulatory Commission's low level radioactive waste program.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) is conducting a strategic assessment of its low level radioactive waste (LLW) regulatory program. The objective of this assessment is to identify and prioritize activities that the staff can undertake to ensure a stable, reliable and adaptable regulatory framework for effective LLW management, while also considering future needs and changes that may occur in the nation's commercial LLW management system.

DATES: The public comment period begins with publication of this notice and continues for 30 days. Written comments should be submitted as described in the **ADDRESSES** section of this notice. Comments submitted by mail should be postmarked by that date to ensure consideration. Comments received or postmarked after that date will be considered to the extent practical.

ADDRESSES: Members of the public are invited and encouraged to submit comments to the Chief, Rules and Directives Branch, Mail Stop T6–D59, U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001. Comments will also be accepted by email at *NRCREP@nrc.gov* or by fax to (301) 415–5397, Attention: Ryan Whited.

FOR FURTHER INFORMATION CONTACT: $\ensuremath{Mr}\xspace$

Ryan Whited, Chief, Low Level Waste Section, Environmental and Performance Assessment Directorate, Division of Waste Management and Environmental Protection, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Rockville, MD 20852. Telephone: (301) 415–7257; fax number: (301) 415–5370; e-mail: *arw2@nrc.gov.*

SUPPLEMENTARY INFORMATION:

I. Background

The NRC last initiated a strategic assessment of its LLW regulatory program in August 1995. As part of that effort, in September 1996, the NRC staff released an "Issues Paper" that identified several options the agency could pursue regarding the overall scope and magnitude of its LLW regulatory program. [The Issues Paper is available in the NRC's Agencywide **Document Management System** (ADAMS) under accession number ML061700297]. In response to that issues paper, and after taking into consideration public comments as well as the fact that the new disposal facilities that had been anticipated following the 1985 amendment of the Low-Level Radioactive Waste Policy Act of 1980 (LLRWPAA) were not