



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 11, 2010

Mr. R. M. Krich
Vice President, Nuclear Licensing
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2, AND 3 - EXEMPTION
FROM THE SCHEDULE REQUIREMENTS OF 10 CFR PART 73,
SECTION 73.55 (TAC NOS. ME2595, ME2596 AND ME2597)

Dear Mr. Krich:

The Commission has approved the enclosed exemption from specific requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 73, for the Browns Ferry Nuclear Plant, Units 1, 2 and 3. This action is in response to your application dated November 6, 2009, as supplemented by letter dated January 11, 2010. Portions of the November 6, 2009, submittal contain safeguards and security sensitive information and, therefore, are not available to the public. Your letter requested an extension of the deadline from March 31, 2010, until December 20, 2012, for the implementation of certain measures in 10 CFR Part 73, as revised on March 27, 2009.

A copy of the exemption is enclosed. The exemption has been forwarded to the Office of the Federal Register for publication.

Sincerely,

A handwritten signature in black ink, appearing to read "Stewart N. Bailey".

Stewart N. Bailey, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-259, 50-260,
and 50-296

Enclosure:
Exemption

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2, AND 3
DOCKET NOS. 50-259, 50-260 AND 50-296
EXEMPTION

1.0 BACKGROUND

Tennessee Valley Authority (TVA, the licensee) is the holder of Facility Operating License Numbers DPR-33, DPR-52 and DPR-68, which authorize operation of the Browns Ferry Nuclear Plant, Units 1, 2, and 3 (BFN). The licenses provide, among other things, that the facility is subject to all rules, regulations, and orders of the U.S. Nuclear Regulatory Commission (NRC, the Commission) now or hereafter in effect.

The facility consists of three boiling-water reactors located in Limestone County, Alabama.

2.0 REQUEST/ACTION

Title 10 of the *Code of Federal Regulations* (10 CFR) Part 73, "Physical protection of plants and materials," Section 73.55, "Requirements for physical protection of licensed activities in nuclear power reactors against radiological sabotage," published March 27, 2009, effective May 26, 2009, with a full implementation date of March 31, 2010, requires licensees to protect, with high assurance, against radiological sabotage by designing and implementing comprehensive site security programs. The amendments to 10 CFR 73.55 published on March 27, 2009, establish and update generically applicable security requirements similar to

those previously imposed by Commission orders issued after the terrorist attacks of September 11, 2001, and implemented by licensees. In addition, the amendments to 10 CFR 73.55 include additional requirements to further enhance site security based upon insights gained from implementation of the post-September 11, 2001, security orders. It is from three of these new requirements that BFN now seeks an exemption from the March 31, 2010, implementation date. All other physical security requirements established by this recent rulemaking have already been or will be implemented by the licensee by March 31, 2010.

By letter dated November 6, 2009, the licensee requested an exemption in accordance with 10 CFR 73.5, "Specific exemptions." Portions of the licensee's November 6, 2009, letter contain safeguards and security sensitive information and, accordingly, are not available to the public. On January 11, 2010, the licensee submitted a redacted version of its November 6, 2009, letter, which is publicly available (Agencywide Documents Access and Management System Accession No. ML100130168). The licensee has requested an exemption from the March 31, 2010, compliance date stating that it must complete a number of significant modifications to the current site security configuration before all requirements can be met. Specifically, the request is for three specific 10 CFR 73.55 requirements that would be in place by December 20, 2012, versus the March 31, 2010, deadline. Being granted this exemption for the three items would allow the licensee additional time to complete the modifications designed to update aging equipment and incorporate state-of-the-art technology to meet or exceed regulatory requirements.

3.0 DISCUSSION OF PART 73 SCHEDULE EXEMPTIONS FROM THE MARCH 31, 2010, FULL IMPLEMENTATION DATE

Pursuant to 10 CFR 73.55(a)(1), "By March 31, 2010, each nuclear power reactor licensee, licensed under 10 CFR Part 50, shall implement the requirements of this section through its Commission-approved Physical Security Plan, Training and Qualification Plan,

Safeguards Contingency Plan, and Cyber Security Plan referred to collectively hereafter as 'security plans.'" Pursuant to 10 CFR 73.5, the Commission may, upon application by any interested person or upon its own initiative, grant exemptions from the requirements of 10 CFR Part 73 when the exemptions are authorized by law, and will not endanger life or property or the common defense and security, and are otherwise in the public interest.

NRC approval of this exemption, as noted above, would allow an extension from March 31, 2010, until December 20, 2012. As stated above, 10 CFR 73.5 allows the NRC to grant exemptions from the requirements of 10 CFR Part 73. The NRC staff has determined that granting of the licensee's proposed exemption would not result in a violation of the Atomic Energy Act of 1954, as amended, or the Commission's regulations. Therefore, NRC approval of the licensee's exemption request is authorized by law.

In the draft final rule provided to the Commission, the NRC staff proposed that the requirements of the new regulation be met within 180 days. The Commission directed a change from 180 days to approximately 1 year for licensees to fully implement the new requirements. This change was incorporated into the final rule (74 FR 13926, March 27, 2009). From this, it is clear that the Commission wanted to provide a reasonable timeframe for licensees to achieve full compliance.

As noted in the final power reactor security rule, the Commission also anticipated that licensees would have to conduct site-specific analyses to determine what changes were necessary to implement the rule's requirements, and that these changes could be accomplished through a variety of licensing mechanisms, including exemptions. Since issuance of the final rule, the Commission has rejected generic industry requests to extend the rule's compliance date for all operating nuclear power plants, but noted that the Commission's regulations provide mechanisms for individual licensees, with good cause, to apply for relief from the compliance date (Reference: June 4, 2009, letter from R. W. Borchardt, NRC, to M. S. Fertel, Nuclear

Energy Institute). The licensee's request for an exemption is, therefore, consistent with the approach set forth by the Commission and discussed in the June 4, 2009, letter.

Browns Ferry Schedule Exemption Request

The licensee provided detailed information in its November 6, 2009, letter, as supplemented by letter dated January 11, 2010, requesting an exemption. The NRC staff finds that the licensee has provided an adequate basis for the exemption request as well as appropriate detailed justification that describes the reasons additional time is needed.

Specifically, the BFN will be undertaking multiple large scope modifications to the physical protection program through four interrelated projects that require supporting multiple subtasks. These subtasks must be completed in sequence due to the complex interconnectivity of each project to other program components. The licensee has provided sufficiently detailed technical information that supports the described solution for meeting the identified requirements.

Because of the large scope of the proposed modifications and upgrades, significant engineering analysis, design, and planning are required to ensure system effectiveness upon completion of the four projects. In addition to project-specific tasks and procurement details, the TVA has also identified a variety of site-specific considerations that will impact the final completion date, such as refueling outages, manpower resources, engineering/design changes during construction, and weather conditions that may impact completion of milestones. As with all construction activities, the licensee must also account for site-specific safety and construction methods in the areas in which work is to be performed, the location of existing infrastructure such as buried power lines, and unanticipated delays that could significantly impact the project schedules.

These site-specific safety and construction methods must be accounted for in the proposed schedule that, in turn, impacts the final compliance date requested. The TVA has contracted a common provider to perform design work at two other TVA sites concurrent with the work required at the BFN. The licensee has provided a coordinated/combined schedule for projects

at BFN that outlines the sequence in which work must be conducted to ensure effective system connectivity. In addition, the required tasks/changes must be completed in sequence at each of the three sites to support all program upgrades being performed and to ensure effective connectivity of each project.

The upgrades that the licensee identified within its exemption request for BFN support its solution for meeting the three specified requirements, and the proposed schedule is justified by the complexity and scope of the projects described to include tasks and sub-tasks, timing issues, and potential delays.

The proposed implementation schedule depicts the critical activity milestones of the security system upgrades; is consistent with the licensee's solution for meeting the requirements; is consistent with the scope of the modifications and the issues and challenges identified; and is consistent with the licensee's requested compliance date.

Notwithstanding the schedule exemptions for these limited requirements, the licensee would continue to be in compliance with all other applicable physical security requirements as described in 10 CFR 73.55 and reflected in its current NRC-approved physical security program. By December 20, 2012, BFN would be in full compliance with all the regulatory requirements of 10 CFR 73.55, as issued on March 27, 2009.

4.0 CONCLUSION FOR PART 73 SCHEDULE EXEMPTION REQUEST

The staff has reviewed the licensee's submittals and concludes that the licensee has provided adequate justification for its request for an extension of the compliance date to December 20, 2012, with regard to three specified requirements of 10 CFR 73.55.

Accordingly, the Commission has determined that pursuant to 10 CFR 73.5, the exemption from the March 31, 2010, compliance date is authorized by law and will not endanger life or property or the common defense and security, and is otherwise in the public interest. Therefore, the Commission hereby grants the requested exemption.

The NRC staff has determined that the long-term benefits that will be realized when the security system upgrades are complete justify exceeding the full compliance date and the proposed implementation schedule is consistent with the scope of the modifications in the case of this particular licensee. The security measures that TVA needs additional time to implement at BFN are new requirements imposed by March 27, 2009, amendments to 10 CFR 73.55, and are in addition to those required by the security orders issued in response to the events of September 11, 2001. Therefore, the NRC staff concludes that the licensee's actions are in the best interest of protecting the public health and safety through the security changes that will result from granting this exemption.


As per the licensee's request and the NRC's regulatory authority to grant an exemption from the March 31, 2010, implementation deadline for the three items specified in Enclosure 1 of the TVA letter dated November 6, 2009 (publicly available version dated January 11, 2010), the licensee is required to be in full compliance by December 20, 2012. In achieving compliance, the licensee is reminded that it is responsible for determining the appropriate licensing mechanism (i.e., 10 CFR 50.54(p) or 10 CFR 50.90) for incorporation of all necessary changes to its security plans.

Pursuant to 10 CFR 51.32, "Finding of no significant impact," the Commission has previously determined that the granting of this exemption will not have a significant effect on the quality of the human environment (75 FR 5354, dated February 2, 2010).

This exemption is effective upon issuance.

Dated at Rockville, Maryland, this 11th day of March 2010.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "Joseph G. Giitter". The signature is written in a cursive style with a large initial "J".

Joseph G. Giitter, Director
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

March 11, 2010

Mr. R. M. Krich
Vice President, Nuclear Licensing
Tennessee Valley Authority
3R Lookout Place
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/RA/

Stewart N. Bailey, Senior Project Manager
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*memo dated

ADAMS Accession Nos. : Letter: ML100050736

Exemption FRN: ML100050737

OFFICE	DORL/LPL2-2/PM	DORL/LPL2-2/PM	DORL/LP-WB/LA	DORL/LPL2-2/BC (A)	NSIR/RSRLB/BC
NAME	SLingam	SBailey	BClayton	RRaghavan for DBroaddus	DHuyck
DATE	03/01/10	03/09/10	03/08/10	03/10/10	12/23/09*
OFFICE	NSIR/DSP/DDRS/DD	OGC NLO w/ comments	DORL/D		
NAME	SMorris	MSpenser	JGitter		
DATE	1/20/10	3/8/10	03/11/10		