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 AUTH. NAME AUTHOR AFFILIATION
 SORENSON, G. C. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Application for amend to License NPF-21, revising Tech Spec
 Section 3.4.5, Bases 3/4 4-3 & Administrative Controls
 6.9.1.5 to reduce reporting requirements for iodine spiking
 to annual rept item, per Generic Ltr 85-19.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • 3000 George Washington Way • Richland, Washington 99352

May 27, 1986
G02-86-485

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attn: E. G. Adensam, Project Director
BWR Project Directorate No. 3
Division of BWR Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

Subject: NUCLEAR PLANT NO. 2
REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS
FOR REPORTING REQUIREMENTS FOR IODINE SPIKING
(SECTIONS 3.4.5 AND 6.9.1.5)

Reference: Generic Letter 85-19, "Reporting Requirements
on Primary Coolant Iodine Spikes", dated
September 27, 1985

In accordance with the Code of Federal Regulations, Title 10, Parts 50.90 and 2.101, the Supply System hereby requests an amendment to the WNP-2 Technical Specifications sections 3.4.5, Bases 3/4 4-3 and Administrative Controls 6.9.1.5 (Attachment). As discussed and in accordance with the referenced Generic Letter this amendment requests the reporting requirements for iodine spiking be reduced from a short-term report to an item which is to be included in the Annual Report, and additionally requests elimination of the existing requirements to shut down a plant if coolant iodine activity limits are exceeded for 800 hours in a 12 month period.

Reduction of reporting requirements for iodine spiking from a short-term report (Special Report or Licensee Event Report) to an item which will be included in the Annual Report, is being requested in conformance with the referenced Generic Letter to delete unnecessary reporting requirements. The information to be included in the Annual Report is similar to that previously required in the Licensee Event Report but has been changed to clearly designate the information required in specific activity analysis and relocates the requirement for reporting to the Administrative section of the technical specifications addressing the Annual Report.

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E. G. Adensam

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REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS FOR REPORTING
REQUIREMENTS FOR IODINE SPIKING (SECTION 3.4.5 AND 6.9.1.5)

The quality of nuclear fuel and fuel management has been greatly improved, such that normal coolant iodine activity is maintained well below the minimum limits. Appropriate actions would be initiated long before accumulating 800 hours above the iodine activity limit. In addition, 10CFR 50.72(b)(1)(ii) requires that NRC be immediately notified of serious principal safety barrier degradation occurring during operation. Therefore, this Technical Specification limit is no longer considered necessary.

The Supply System has reviewed this change per 10CFR 50.92 and determined that it does not:

- 1) Involve a significant increase in the probability or consequences of an accident previously evaluated because the proposed amendment affects only data accumulation, and in no way affects nuclear fuel design or performance.
- 2) Create the possibility of a new or different kind of accident than previously evaluated because the length of the reporting process from a short-term report (Special Report or Licensee Event Report) to an item which is to be included in the Annual Report process does not impact the actions required as a result of primary coolant activity.
- 3) Involve a significant reduction in a margin of safety because the same limits are applied in monitoring iodine activity in the primary coolant and the same actions are required to place the plant in an isolated and safe condition.

The Supply System has evaluated this request in accordance with the criteria contained in 10CFR 170.21, and has included a warrant for One hundred fifty dollars (\$150.00) as initial payment for this application for amendment under Facility Category A (Power Reactors).

This change has been reviewed and approved by the Plant Operations Committee and the Supply System Corporate Nuclear Safety Review Board. In accordance with 10CFR 50.91, the State of Washington has been provided a copy of this letter.

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REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS FOR REPORTING
REQUIREMENTS FOR IODINE SPIKING (SECTION 3.4.5 AND 6.9.1.5)

Should you require any further information or assistance to aid in
evaluating this request, please contact Mr. P. L. Powell, Manager,
WNP-2 Licensing.

Very truly yours,



G. C. Sorensen, Manager
Regulatory Programs

SIS/bk
Attachments

cc: JO Bradfute - NRC
C Eschels - EFSEC
JB Martin - NRC RV
E Revell - BPA
NS Reynolds - BLCP&R
NRC Site Inspector

STATE OF WASHINGTON)
)
County of Benton)

Subject: IODINE SPIKING

I, G. C. SORENSEN, being duly sworn, subscribe to and say that I am the Manager, Regulatory Programs for the WASHINGTON PUBLIC POWER SUPPLY SYSTEM, the applicant herein; that I have full authority to execute this oath; that I have reviewed the foregoing; and that to the best of my knowledge, information and belief the statements made in it are true.

DATE 27 MAY, 1986

G. C. Sorensen
G. C. Sorensen, Manager
Regulatory Programs

On this day personally appeared before me G. C. Sorensen to me known to be the individual who executed the foregoing instrument and acknowledge that he signed the same as his free act and deed for the uses and purposes therein mentioned.

GIVEN under my hand and seal this 27 day of may, 1986.

S. B. Michaels
Notary Public in and for the
State of Washington

Residing at Richland, wa.
"89"

1. Introduction

The purpose of this study is to investigate the effects of various factors on the growth of plants. The study was conducted over a period of six months, during which time the plants were grown under different conditions. The results of the study are presented in the following sections.

2. Materials and Methods

The plants used in this study were of the species *Phaseolus vulgaris*. They were grown in a greenhouse, where the temperature was maintained at a constant level of 25°C. The plants were watered daily with a solution of 1% urea.

The plants were divided into two groups. The first group was grown in a normal soil, while the second group was grown in a soil containing 1% urea. The plants were harvested at the end of the six-month period, and the weight of the roots and leaves was measured.

The results of the study are shown in the following table:

Group	Root weight (g)	Leaf weight (g)
Normal soil	1.2	2.5
1% urea soil	1.5	3.0

From the above table, it can be seen that the plants grown in the 1% urea soil had a higher root weight and leaf weight than those grown in the normal soil.