



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 46 TO FACILITY OPERATING LICENSE NO. NPF-21

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

WPPSS NUCLEAR PROJECT NO. 2

DOCKET NO. 50-397

1.0 INTRODUCTION

By letter dated March 10, 1987, the licensee requested an amendment to a license condition of the WNP-2 license. This license condition requires that the licensee shall implement requirements of Regulatory Guide 1.97, Revision 2, for flux monitoring prior to startup following the second refueling outage. In the application letter and in a supplemental letter dated March 31, 1987, the licensee details technical problems with the available monitor designs that require resolution before a commitment to one design can be made. The licensee requests that the deadline be extended to the end of the third refueling outage. It is noted that Amendment No. 23, issued May 5, 1986, to this Facility Operating License extended this deadline to the end of the second refueling outage.

2.0 EVALUATION

The licensee states that he has been unsuccessful in attempting to environmentally qualify a neutron flux monitoring system. On three separate occasions during recent qualification testing, the test assemblies experienced immediate failures. These failures are under investigation by the monitoring system vendor. It is deemed unlikely that the difficulty can be found, corrected, and the system subjected to a successful qualification test prior to restart following the second refueling outage. Thus the licensee would be unable to meet the requirement of the existing license condition.

Because Category 1 neutron flux monitoring systems that potentially meet all of the criteria of Regulatory Guide 1.97 have only recently become available to the industry, and because there are unrelated systems in place to provide operators with sufficient data to assess reactor conditions (e.g., control rod position monitors, reactor vessel level and pressure monitors) in the unlikely event of an accident condition prior to qualification of the system now being tested, the staff finds that the licensee's request for extension to the third refueling outage is acceptable.



In reaching this finding, the staff observed that developments by the supplier of the neutron flux monitoring system currently being tested by the licensee as well as developments by other suppliers (notably, General Electric) should make unnecessary any further deferral of compliance with this license condition.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation and use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes in surveillance requirements. The staff has determined that this amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

4.0 CONTACT WITH STATE OFFICIAL

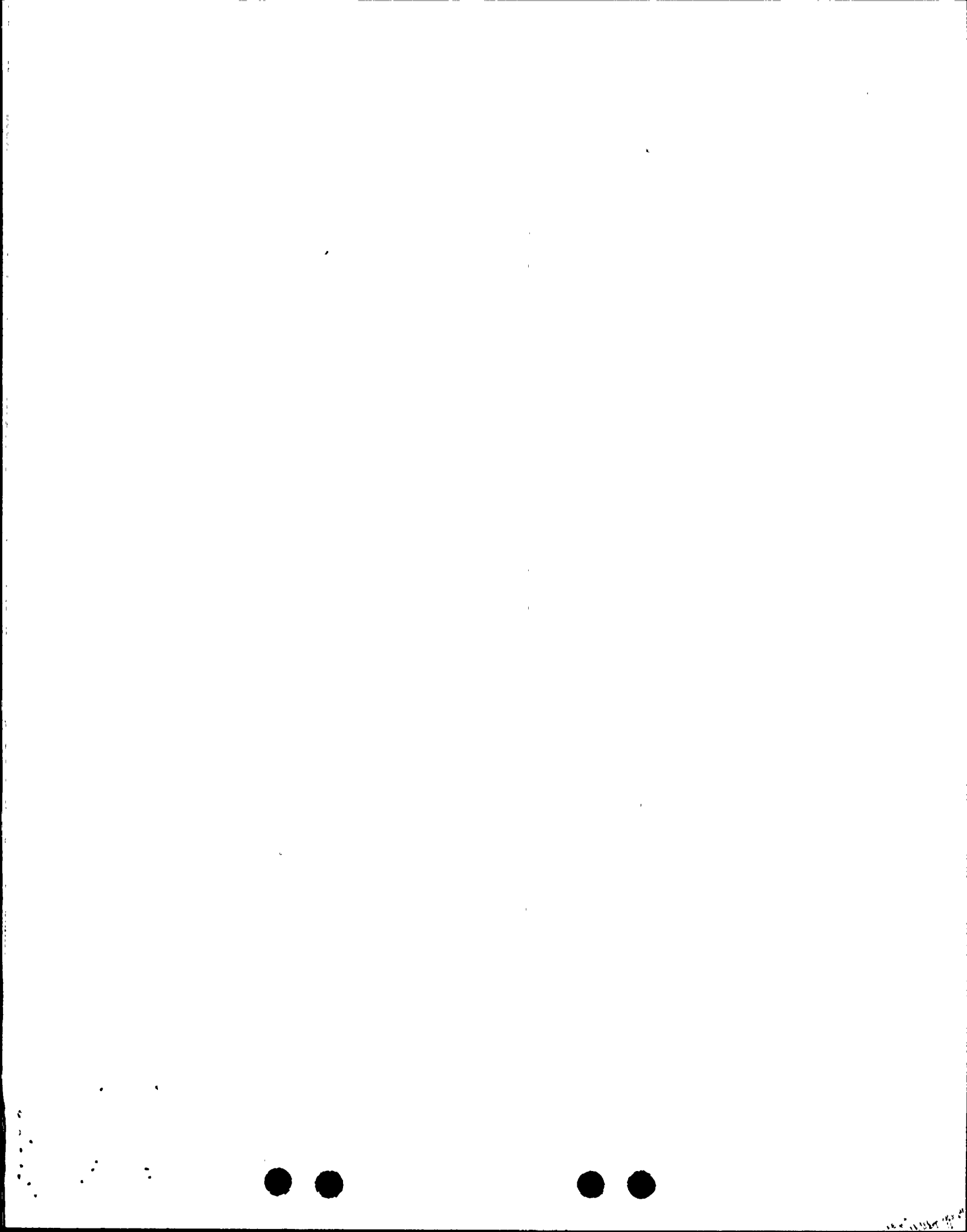
The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (52 FR 11378) on April 8, 1987, and consulted with the State of Washington. No public comments were received, and the State of Washington did not have any comments.

5.0 CONCLUSION

We have concluded, based on the considerations discussed above, that:
(1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and
(2) such activities will be conducted in compliance with the Commission's regulations and (3) the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: R. Samworth

Dated: June 3, 1987



Docket No. 50-397

Mr. G. C. Sorensen, Manager
Regulatory Programs
Washington Public Power Supply System
P.O. Box 968
3000 George Washington Way
Richland, Washington 99352

Dear Mr. Sorensen:

Subject: Issuance of Amendment No. to Facility Operating
License NPF-21 - WPPSS Nuclear Project No. 2 (TAC 64838)

The U.S. Nuclear Regulatory Commission has issued the enclosed Amendment No. to Facility Operating License NPF-21 to the Washington Public Power Supply System for WPPSS Nuclear Project No. 2, located in Benton County near Richland, Washington. This amendment is in response to your letter dated March 10, 1987.

This amendment revises License Condition 2.C.(16), Attachment 2, item 3.(b) to extend the deadline until the third refueling outage for implementing the requirements of Regulatory Guide 1.97, Revision 2, for flux monitoring.

A copy of the related safety evaluation supporting Amendment No. to Facility Operating License No. NPF-21 is enclosed.

Sincerely,

Robert B. Samworth, Project Manager
Project Directorate V
Division of Reactor Projects-III/IV/V
& Special Projects

Enclosures: 1. Amendment No. to Facility
Operating License No. NPF-21 2. Safety Evaluation

cc w/enclosures: See next page

<i>RS</i> DSRP/PD5 RSamworth	<i>later</i> DSRP/PD5 JLee	<i>APL</i> OGC 5/18/87	<i>ms</i> DSRP/PD5 GWKnighton
5/15/87	5/ /87	5/18/87	6/3/87

1945



Document Name:
WNP-2 NEUTRON FLUX MONITOR

Requestor's ID:
DAWSON

Author's Name:
Samworth

Document Comments:

1944

1945

1946

1947



[Handwritten scribble]



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

FROM: B. SAMWORTH
FOS
NRR

DOCUMENT DATE: DATE RECEIVED TASK BASIS NO:
05/18/87 873257

CLASS: AHD1

PENDING BEFORE:
FACILITY: (05000397) WASHINGTON NUCLEAR 2

DESCRIPTION:

REFERRED TO:

RECEIVED:

AHD1 TO TECH STAFF LICENSE CHANGE TO
EXTEND DEADLINE UNTIL 3RD REFUELING
OUTAGE FOR IMPLEMENTATION OF
REQUIREMENTS OF REG GUIDE 1.07. PER 2
FOR FLUX MONITORING....

SCINTI
RUTSBERG/DOGDON

05/18/87

AH 5/17

REMARKS:

FOR AHDAL REVIEW

*Text revised 5/27/87
LBSA*

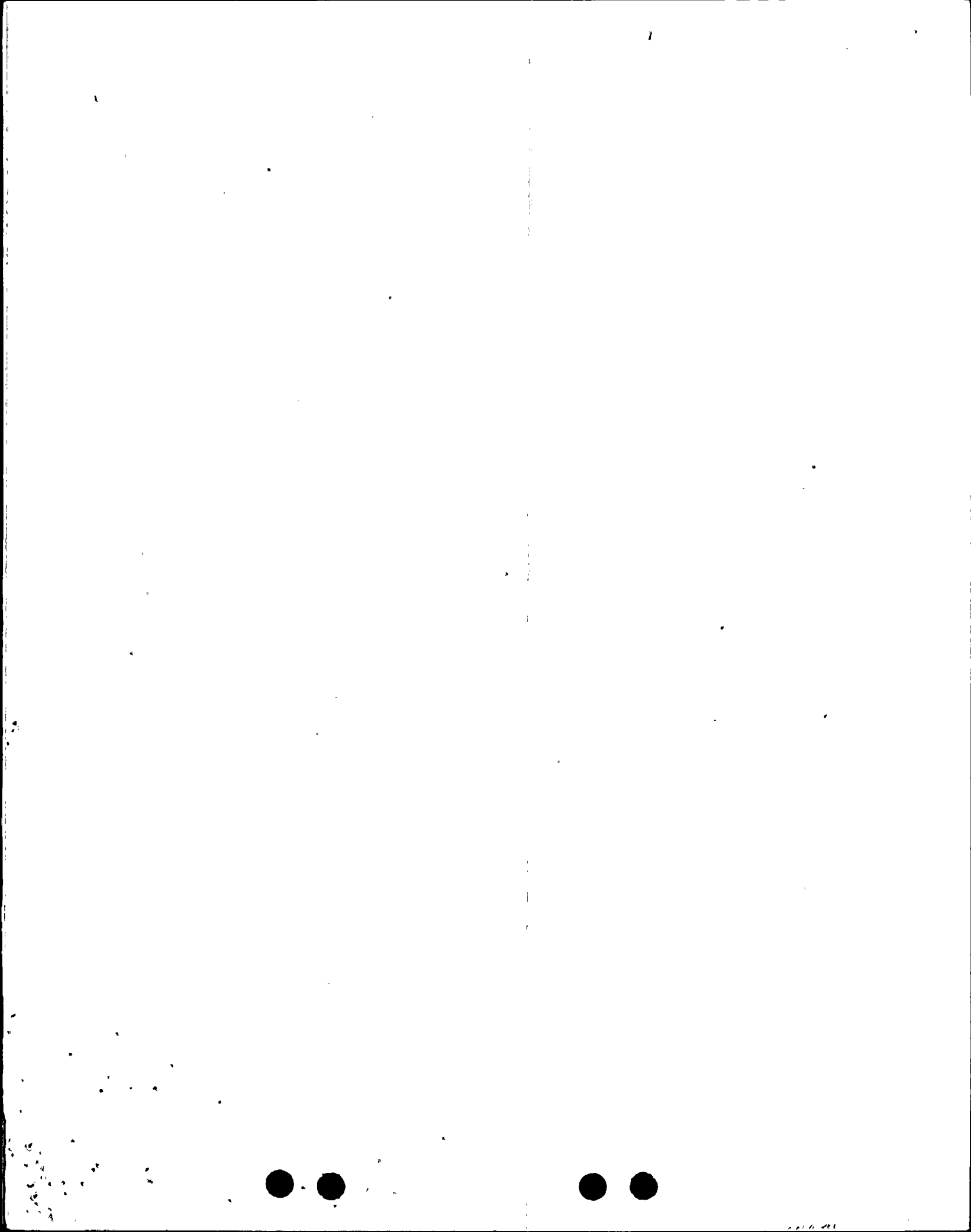
Bob Samworth

OK. Except for place marked in
Safety Evaluation where it speaks
of "replacement." It does not
seem to me that anything
is being replaced. I suggested
language that says what
I think the sentence intends

AH H

5/18/87

L



DISTRIBUTION

Docket File

NRC & Local PDRs

PD#5 Plant file

GMHolahan

RSamworth

JBradfute

JLee

OGC-Bethesda

DHagan

EJordan

TBarnhart (4)

WJones

EButcher

ACRS (10)

GPA/PA

ARM/LFMB

(Region V - 4 cys)

1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

