

FORD 1

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 AUTH. NAME AUTHOR AFFILIATION
 HABERMEYER, H. W. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 NRC - No Detailed Affiliation Given

SUBJECT: Rev 1 to 931118 preliminary part 21 rept re as-loaded
 gadolina pin locations not being in copliance w/design
 specs. Defect resulted from inadequate communication of
 design spec info from designher to mfg within vendor.

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172555T

Updated Part 21

11/19/93

CP&L

Carolina Power & Light Company

Nuclear Services Department (OHS-9B5)
P. O. Box 1551
411 Fayetteville Street
Raleigh, North Carolina 27602

Date & Time: NOVEMBER 19, 1993 5:20 PMFrom: H. W. HABERMEYERPhone: (919) 546-6663Fax: 919-546-4073To: NRC OPERATIONS CENTERCompany: NRCFax No.: (301) 492-8182Fax-Verify No.: (301) 951-0550No. Pages: 2 (Excluding this sheet)Comments: REVISION 1 TO PRELIMINARY10 CFR 21 NOTIFICATION WITH UPDATED
INFORMATION

9312020249 931119
PDR ADOCK 05000261
S PDR

11/19/93

Fred Emerson

10 CFR PART 21 REPORT
(REVISION 1 TO PRELIMINARY NOTIFICATION OF 11/18/93)
NOVEMBER 19, 1993

1. Name and address of individual or individuals notifying the Commission

Mr. H. W. Habermeyer, Jr.
Vice President, Nuclear Services
Carolina Power and Light Company
P. O. Box 1551
Raleigh, NC 27602
(919) 546-6663

2. Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect

H. B. Robinson Steam Electric Plant - Unit No. 2
Hartsville, South Carolina

3. Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect

Siemens Power Corporation
2101 Horn Rapids Road
Richland, WA 99352-0130

Attn: James Morgan
(509) 375-8588

4. Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply

Nature of defect: As-loaded gadolinia pin locations did not comply with design specifications. Pin locations were in incorrect quadrant of the fuel assembly. The defect apparently resulted from inadequate communication of design specification information from the fuel designer to manufacturing within the Siemens organization.

Safety hazard which could be created: This condition may result in thermal or safety limits violations which may not be detectable by power distribution monitoring systems.

11/19/93

**10 CFR PART 21 REPORT
(REVISION 1 TO PRELIMINARY NOTIFICATION OF 11/18/93)
NOVEMBER 19, 1993**

5. The date on which the information of such defect or failure to comply was obtained

November 18, 1993

6. In the case of a basic component which contains a defect or fails to comply, the number and location of such components in use at, supplied for, or being supplied for one or more facilities or activities subject to the regulations in this part

Number of components: Six fuel assemblies in Reload Batch ROB-13 (total of 56 fuel assemblies)

Location of components: Defective assemblies located in core locations L-03, M-04, N-05, N-11, M-12, L-13

7. The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action

Corrective action: The Robinson plant is currently going to cold shutdown and preparing to exchange the locations of defective assemblies to achieve as-designed conditions.

Responsible organization: Carolina Power and Light Company

Length of time to complete action: From 10 to 21 days, depending on how much of the core must be offloaded.

8. Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees

Such advice has not yet been developed.

POWER REACTOR

EVENT NUMBER: 26385

FACILITY: ROBINSON
UNIT: [2] [] []
RX TYPE: [2] W-3-LP

REGION: 2
STATE: SC

NOTIFICATION DATE: 11/18/93
NOTIFICATION TIME: 21:53 [ET]
EVENT DATE: 11/18/93
EVENT TIME: 00:00 [EST]
LAST UPDATE DATE: 11/19/93

NRC NOTIFIED BY:
HQ OPS OFFICER: JOHN MacKINNON

EMERGENCY CLASS: NOT APPLICABLE
10 CFR SECTION:
CDEG 21.21(c)(3)(i) DEFECTS/NONCOMPLIANCE

NOTIFICATIONS

UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
2	N	N	0	HOT SHUTDOWN	0	HOT SHUTDOWN

EVENT TEXT

AS LOADED GADOLINIA PIN LOCATIONS DO NOT COMPLY WITH DESIGN SPECIFICATIONS. PIN LOCATIONS ARE IN INCORRECT QUADRANT OF THE FUEL ASSEMBLY.

FOLLOWING INFORMATION IS FROM A FACSIMILE SENT FROM H.B. ROBINSON POWER PLANT.

"AS-LOADED GADOLINIA PIN LOCATIONS DID NOT COMPLY WITH DESIGN SPECIFICATIONS. PIN LOCATIONS WERE IN INCORRECT QUADRANT OF THE FUEL ASSEMBLY. SIX FUEL ASSEMBLIES IN RELOAD BATCH ROB-13 (TOTAL OF 56 FUEL ASSEMBLIES) WERE FOUND TO HAVE THE GADOLINIA PINS LOADED IN INCORRECT QUADRANT. DEFECTIVE ASSEMBLIES LOCATED IN CORE LOCATIONS L-03, M-04, N-05, N-11, M-12, & L-13. THIS CONDITION MAY RESULT IN THERMAL OR SAFETY LIMITS VIOLATIONS WHICH MAY NOT BE DETECTABLE BY POWER MONITORING SYSTEMS". THE FUEL ASSEMBLIES WERE SUPPLIED BY SIEMENS POWER CORPORATION, 2101 HORN RAPIDS ROAD, RICHLAND, WA.

"CURRENT CORRECTIVE ACTION INVOLVES REMAINING IN HOT SHUTDOWN. TWO POTENTIAL ACTIONS ARE BEING CONSIDERED. 1) GOING TO COLD SHUTDOWN AND EXCHANGING THE LOCATIONS OF THE DEFECTIVE ASSEMBLIES TO ACHIEVE AS-DESIGNED CONDITIONS, OR 2) REANALYZING FOR THE AS-LOADED CONDITION AND OPERATING THE CYCLE IN THE AS-LOADED CONDITION. (NOTE: THIS OPTION WILL NOT BE CONSIDERED IF THIS CONDITION IS DETERMINED TO BE A SAFETY ISSUE)".

****UPDATED VIA FACSIMILE FROM Mr. HABERMAYER (CP&L) TO OPERATION CENTER. FACSIMILE RECEIVED BY MACKINNON 11/19/94 @ 1725EST****

AS STATED ABOVE THE "AS-LOADED GADOLINIA PIN LOCATIONS DID NOT COMPLY WITH DESIGN SPECIFICATIONS. PIN LOCATIONS WERE IN INCORRECT QUADRANT OF THE FUEL

(Continued on next page)

ASSEMBLY." THE PART 21 UPDATE LICENSEE SAID THAT "THE DEFECT APPARENTLY RESULTED FROM INADEQUATE COMMUNICATION OF DESIGN SPECIFICATION INFORMATION FROM THE FUEL DESIGNER TO MANUFACTURING WITHIN THE SIEMENS ORGANIZATION." ROBINSON PLANT IS CURRENTLY GOING TO A COLD SHUTDOWN CONDITION AND IS PREPARING TO EXCHANGE THE LOCATIONS OF THE DEFECTIVE ASSEMBLIES TO ACHIEVE AS-DESIGNED CONDITIONS. THIS PROCESS WILL TAKE FROM 10 TO 21 DAYS (DEPENDING ON HOW MUCH OF THE CORE MUST BE OFFLOADED).