

LICENSEE: CAROLINA POWER & LIGHT CO.
SITE: ROBINSON 2 EN NUMBER: 26385
DOCKET: 05000261 EVENT DATE: 11-18-93
RX TYPE: PWR EVENT TIME: 00:00
VENDORS: W-3-LP NOTIFY DATE: 11-18-93
EMERGENCY CLASS: N/A REGION: 2 STATE: SC TIME: 21:53
OPS OFFICER: JOHN MacKINNON
10 CFR SECTION: CDEG 21.21(c)(3)(i) DEFECTS/NONCOMPLIANCE
UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE
CODE CRIT PWR PWR
2 N N 0 HOT SHUTDOWN 0 HOT SHUTDOWN

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. HABERMEYER (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 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

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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).

SEE EVENTS # 26390 & # 26391 FOR MORE INFORMATION.

LICENSEE: CAROLINA POWER & LIGHT CO.
SITE: ROBINSON 2 EN NUMBER: 26390
DOCKET: 05000261 EVENT DATE: 11-19-93
RX TYPE: PWR EVENT TIME: 13:45
VENDORS: W-3-LP NOTIFY DATE: 11-19-93
EMERGENCY CLASS: N/A REGION: 2 STATE: SC TIME: 14:40
OPS OFFICER: JOHN MacKINNON
10 CFR SECTION: AOUT 50.72(b)(1)(ii)(B) OUTSIDE DESIGN BASIS
UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE
CODE CRIT PWR PWR
2 N N 0 HOT SHUTDOWN 0 HOT SHUTDOWN

LICENSEE HAS DETERMINED THAT WHILE OPERATING AT 30% POWER ON 11/17/93 THEY EXCEEDED THEIR HOT CHANNEL FACTOR BY APPROXIMATELY 9%.

AT 1345EST 11/19/93 LICENSEE DETERMINED THAT WHILE OPERATING AT 30% (HIGHEST POWER LEVEL ACHIEVED COMING OUT OF A REFUELING OUTAGE) REACTOR POWER PRIOR TO SHUTDOWN ON 11/17/93, THE TECH SPEC 3.10.2.1 LIMIT FOR HOT CHANNEL FACTOR WAS EXCEEDED BY APPROXIMATELY 9% OF THE CORE OPERATING LIMIT REPORT (COLR). DETERMINATION WAS MADE BY PRELIMINARY CALCULATIONS BY THE VENDOR AND THE COMPANY'S NUCLEAR FUELS SECTION. LICENSEE SAID THAT THEY HAVE NO INDICATION OF ANY FUEL FAILURE. IN A COUPLE OF DAYS WHEN LICENSEE HAS MORE INFORMATION THEY WILL UPDATE THIS REPORT. PLANT WILL GO TO A COLD SHUTDOWN CONDITION. SEE EVENT # 26385 (PART 21) & # 26391 FOR MORE INFORMATION.

RESIDENT INSPECTOR WAS NOTIFIED BY LICENSEE.

UPDATE 12/06/93 @ 17:47 BY WALLACE TO GOULD BASED ON VALID CALCULATIONS, THE F DELTA H LIMIT WAS FOUND TO HAVE BEEN EXCEEDED BY 0.36% OF THE LIMIT VALUE. THE LIMIT WAS 1.946, WHEREAS THE ACTUAL MEASURED VALUE WAS 1.953 OBSERVED DURING THE FLUX MAP TAKEN ON 11/15/93. THE REASON THAT THE THERMAL LIMIT WAS UNKNOWINGLY EXCEEDED WAS THAT FUEL RODS IN CERTAIN ASSEMBLIES IN THE CORE WERE NOT LOADED AS DESIGNED, WHICH HAD THE EFFECT OF ACCENTUATING POWER PEAKING IN THE CORE, CAUSING THE THERMAL LIMIT TO BE EXCEEDED. THE RI WAS INFORMED.

LICENSEE: CAROLINA POWER & LIGHT CO.

SITE: ROBINSON 2 EN NUMBER:26391
DOCKET: 05000261 EVENT DATE: 11-19-93
RX TYPE: PWR EVENT TIME: 17:31
VENDORS: W-3-LP NOTIFY DATE: 11-19-93
EMERGENCY CLASS: N/A REGION: 2 STATE: SC TIME: 18:10
OPS OFFICER: JOHN MacKINNON
10 CFR SECTION: APRE 50.72(b)(2)(vi) OFFSITE NOTIFICATION
UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE
CODE CRIT PWR PWR
2 N N 0 HOT SHUTDOWN 0 HOT SHUTDOWN

LICENSEE ISSUED A NEWS RELEASE STATING THAT THEY WILL ENTER A COLD SHUTDOWN CONDITION AND NOT RESTART UNTIL THE MIDDLE OF DECEMBER.

CP&L ROBINSON NUCLEAR PLANT, WHICH HAD BEEN SCHEDULED TO COME BACK ON LINE THIS MONTH AFTER A SCHEDULED OUTAGE WILL MOST LIKELY NOT RESTART UNTIL MID-DECEMBER. THE PRESS RELEASE MENTIONED THAT ITS FUEL SUPPLIER SIEMENS POWER CORP. DISCOVERED THAT IT HAD MADE AN ERROR IN THE POSITIONING OF SOME OF THE REACTOR NUCLEAR FUEL RODS AND THAT THE LICENSEE NEEDS TO REPOSITION SIX FUEL BUNDLES IN THE CORE BEFORE RESTARTING. SEE EVENTS # 26390 & # 26385 FOR BACKGROUND INFORMATION.

RESIDENT INSPECTOR WAS INFORMED BY THE LICENSEE.