

CATEGORY 1

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 RECIP.NAME: RECIPIENT AFFILIATION:

SUBJECT: "Number of Personnel & Man-Rem by Work & Job Function,1995."
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SERIAL: HNP-96-020

FEB 21 1996

United States Nuclear Regulatory Commission
ATTENTION: Document Control Desk
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SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NO. 50-400/LICENSE NO. NPF-63
ANNUAL OPERATING REPORT - 1995

Gentlemen:

In accordance with Harris Nuclear Plant Technical Specification 6.9.1.2, Carolina Power & Light Company herewith submits the annual report of (a) individuals receiving exposures greater than 100 mrem/yr and their associated man-rem exposure according to work and job functions, (b) primary coolant iodine spikes, and (c) challenges to the pressurizer power-operated relief valves (PORVs) and safety valves for 1995.

Questions regarding this matter may be referred to Mr. T. D. Walt at (919) 362-2711.

Sincerely,

MGW

c: Mr. S. D. Ebnetter
Mr. N. B. Le
Mr. D. J. Roberts
Ms. M. L. Thomas

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R PDR

RIMS II
NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION, 1995
HARRIS PLANT

WORK AND JOB FUNCTION	NUMBER OF PERSONNEL > 100 MREM			TOTAL MAN-REM		
	STAT	UTIL	CNTR	STAT	UTIL	CNTR
REACTOR OPERATIONS AND SURVEILLANCE						
MAINTENANCE PERSONNEL	2	0	2	0.432	0.000	0.509
OPERATING PERSONNEL	1	0	0	2.319	0.000	0.247
HEALTH PHYSICS PERSONNEL	19	0	6	4.979	0.032	2.064
SUPERVISORY PERSONNEL	0	0	0	0.106	0.003	0.012
ENGINEERING PERSONNEL	0	0	0	0.322	0.021	0.027
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	0	0	3	1.775	0.026	2.044
OPERATING PERSONNEL	0	0	0	0.192	0.000	0.005
HEALTH PHYSICS PERSONNEL	0	0	0	0.580	0.000	0.018
SUPERVISORY PERSONNEL	0	0	0	0.013	0.000	0.015
ENGINEERING PERSONNEL	0	0	0	0.287	0.007	0.129
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	2	0	0	0.294	0.035	0.012
OPERATING PERSONNEL	0	0	0	0.000	0.000	0.001
HEALTH PHYSICS PERSONNEL	0	0	0	0.032	0.000	0.000
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.084	0.001	0.000
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	13	0	37	5.726	0.000	10.778
OPERATING PERSONNEL	1	0	0	0.391	0.000	0.030
HEALTH PHYSICS PERSONNEL	10	0	0	2.851	0.000	0.095
SUPERVISORY PERSONNEL	0	0	0	0.018	0.000	0.000
ENGINEERING PERSONNEL	1	0	2	0.431	0.001	0.468
WASTE PROCESSING						
MAINTENANCE PERSONNEL	1	0	0	0.490	0.000	0.239
OPERATING PERSONNEL	0	0	0	0.098	0.000	0.000
HEALTH PHYSICS PERSONNEL	2	0	0	1.420	0.000	0.072
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	0	0	1	0.019	0.000	0.189
REFUELING						
MAINTENANCE PERSONNEL	47	4	102	14.489	0.941	36.067
OPERATING PERSONNEL	12	0	1	4.671	0.000	0.641
HEALTH PHYSICS PERSONNEL	17	0	20	5.613	0.002	5.168
SUPERVISORY PERSONNEL	0	0	4	0.408	0.062	1.357
ENGINEERING PERSONNEL	15	0	133	5.648	0.386	65.944
TOTAL						
MAINTENANCE PERSONNEL	65	4	144	23.206	1.002	49.649
OPERATING PERSONNEL	14	0	1	7.671	0.000	0.924
HEALTH PHYSICS PERSONNEL	48	0	26	15.475	0.034	7.417
SUPERVISORY PERSONNEL	0	0	4	0.545	0.065	1.384
ENGINEERING PERSONNEL	16	0	136	6.791	0.416	66.757
GRAND TOTAL	143	4	311	53.688	1.517	126.131

Notes: (1) Dose based on electronic dosimeters

(2) STAT=Harris Plant staff
UTIL=CP&L non-Harris personnel
CNTR=Contractor

(3) Special Maintenance includes special work on spent fuel cask, spent fuel pools, moveable in-core detectors seal table room equipment, steam generators, reactor head, and certain valves and pumps.

1995 ANNUAL REPORT - PRIMARY COOLANT IODINE SPIKES

During 1995, the primary coolant did not exceed 1.0 $\mu\text{Ci}/\text{gram}$ dose equivalent I-131 or 100/E-bar $\mu\text{Ci}/\text{gram}$ gross radioactivity as set forth in Technical Specification 3.4.8.

1995 ANNUAL REPORT - PRESSURIZER RELIEF AND SAFETY VALVE CHALLENGES

There were no challenges to the pressurizer safety valves in 1995. One (1) pressurizer power-operated relief valve was challenged in 1995. Details of this event are described below.

On November 5, 1995, with the plant operating in Mode-1 at 100% power, A-Train Engineered Safety Feature Actuation System (ESFAS) slave relay surveillance testing was in progress. While performing the test portion that verifies the operability of the Main Steam Line Isolation Signal circuitry, a "Low Steam Line Pressure Reactor Trip/Safety Injection (SI)" signal was generated. A contact on the K809 relay failed to maintain continuity eliminating the "block" function to the "A" Main Steam Isolation Valve (MSIV). As the valve closed and turbine throttle valve position remained constant, increased steam load was carried by "B" and "C" Steam Generators. This resulted in a pressure decrease in the "B" and "C" main steam lines due to increased steam flow. The rate compensation feature associated with the low steam line pressure SI initiated a low steam line pressure Reactor Trip/SI Signal for "C" steam line.

Due to the SI, the Reactor Coolant System (RCS) was being filled to solid plant conditions by the injection flow. The main control room operators proceeded through the Emergency Operating Procedure (EOP) network as required to secure SI. Although progress through the EOP procedure flow paths was timely, it did not prevent the plant from going solid. The solid plant conditions resulted in an increase in RCS pressure, which lifted pressurizer power-operated relief valve (PORV) PCV-444B. A liquid/steam mixture was released by the pressurizer PORV to the Pressurizer Relief Tank (PRT). During this time the PORV cycled approximately 58 times. This resulted in an overpressure condition in the PRT and one of the two rupture disks ruptured. Approximately 1200 gallons of water from the PRT spilled into the containment sump. The control room staff took actions necessary to stabilize the plant and establish Mode-3 (Hot Standby). An Unusual Event (UE) was declared at 0805 due to the Emergency Core Cooling System actuation. The UE was exited at 0912 upon termination of SI and stabilization of the plant in Mode-3.

An inspection and evaluation were performed to assess the condition of PORV PCV-444B. It was concluded that PCV-444B was acceptable for plant restart and power operations.

A more detailed description of this event was reported in Licensee Event Report (LER) 95-011, dated December 5, 1995.