NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
CRYSTAL RIVER UNIT 3	0 5 0 0 0 3 0 2	1 OF 0 2

TITLE (4)
FAILURE TO POST HIGH RADIATION AREA

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
1 0	0 6	8 5	8 5	0 2 1	0 0	1 1	0 5	8 5	N/A	0 5 0 0 0
									N/A	0 5 0 0 0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
1	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 9 6	20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
	20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	20.405(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
	20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
W. K. Bandhauer, Nuclear Safety Supervisor	AREA CODE 9 0 1 4 7 9 5 - 1 6 1 4 8 6

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On October 6, 1985, Crystal River Unit 3 was operating at 96% reactor power generating 855 megawatts electric. At 1517, the NRC Resident Inspector notified Health Physics (HP) personnel of two unmarked and unposted waste drums which met the criteria for High Radiation Areas. Surveys showed the drums to read 600 and 400 millirem per hour (mr/hr) on contact with readings of 80 and 60 mr/hr at 18 inches. The drums were immediately barricaded and posted as a High Radiation Area.

Investigation showed that the drums had been filled and compacted on October 2 and 4, 1985. The HP Technicians covering the work misinterpreted the posting requirements for a High Radiation Area and failed to properly post the two drums as a High Radiation Area.

The two HP Technicians involved were counseled on posting procedures and requirements. All other HP Technicians were made aware of the event and of posting requirements.

IE22
1/1

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
CRYSTAL RIVER UNIT 3	0 5 0 0 0 3 0 2	8 5	— 0 2 1	— 0 0	0 2 OF 0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

EVENT DESCRIPTION

On October 6, 1985, Crystal River Unit 3 was operating at 96% reactor power and generating 855 megawatts electric. At 1517, the Health Physics (HP) office received a call, from the NRC Resident Inspector, stating that a problem existed near the radioactive waste processing area. Two HP Technicians immediately entered the area and were informed by the Resident Inspector that two unmarked and unposted waste drums met the criteria for a High Radiation Area. Surveys showed that the two waste drums were reading 600 millirem per hour (mr/hr) and 400 mr/hr on contact, with readings of 80 mr/hr and 60 mr/hr respectively at 18 inches. The two waste drums were immediately barricaded and the immediate vicinity was posted as a High Radiation Area.

Investigation revealed that the waste drums of interest were filled and compacted on October 2 and October 4, 1985, by the Nuclear Waste Department. Two different HP Technicians covered the two days work and both technicians were aware of the contact dose rates on the waste drums. The technicians misinterpreted the criteria for posting a High Radiation Area in that they felt that if the dose rates at 18 inches were below 100 mr/hr, the area did not require posting as a High Radiation Area.

The Code of Federal Regulations Title 10 Part 20 (10CFR20) Section 202(b)(3) defines a High Radiation Area as "any area, accessible to personnel, in which there exists radiation ... at such levels that a major portion of the body could receive in any one hour a dose in excess of 100 millirems," and makes no reference to any 18 inch limitation or criterion.

SAFETY CONSIDERATIONS

This event represents a potential safety hazard because plant personnel could unknowingly have spent time in an area of high dose rates. However, no unusual exposures have been noted. The two waste drums were located in a corner well out of the normal personnel traffic pattern. In addition, no unusual dosimeter readings have been noted for Nuclear Waste Department personnel who routinely work in the area.

The event presented no threat to nuclear safety or to the health and safety of the public.

CORRECTIVE ACTIONS

The area surrounding the affected waste drums was immediately barricaded and posted as a High Radiation Area. All necessary controls limiting access to the area were implemented. The HP Technicians involved in the improper posting were counseled on the posting requirements of 10CFR20, Technical Specifications, and plant procedures. All remaining HP Technicians were made aware of this event and of proper posting requirements.

PREVIOUS SIMILAR EVENTS

No previous LERs have been submitted for failure to properly post a High Radiation Area.

Florida Power
CORPORATION

November 5, 1985
3F1185-09

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72
Licensee Event Report No. 85-021-00

Dear Sir:

Enclosed is Licensee Event Report (LER) No. 85-021-00 which is submitted in accordance with 10 CFR 50.73.

Should there be any questions, please contact this office.

Sincerely,

G. R. Westafer
Manager, Nuclear Operations
Licensing and Fuel Management

AEF/feb

Enclosure

xc: Dr. J. Nelson Grace
Regional Administrator, Region II
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
101 Marietta Street N.W., Suite 2900
Atlanta, GA 30323

IE22
1/1