

SUPPLEMENTARY INFORMATION

1. Report No.: 50-302/78-013/04X-0
2. Facility: Crystal River Unit #3
3. Report Date: 20 April 1978
4. Occurrence Date: June 1977 - March 1978 (discovered 11 April 1978 & determined at plant 20 April 1978)

5. Identification of Occurrence:

Environmental samples were not analyzed by contractors using procedures which provided LLD's equal to or less than those required by Environmental Tech Specs.

6. Conditions Prior to Occurrence:

N/A

7. Description of Occurrence:

The following samples had LLD's greater than those required by ETS for the below indicated periods.

<u>Milk (2 stations)</u>	<u>June 1977</u>	<u>Aug. 1977</u>	<u>Sept. 1977</u>
( # ETS)	1	1	2
<u>Marine Plants (2 stations)</u>	<u>Second Half 1977</u>	<u>First Half 1978</u>	
( # ETS)	1	7	

8. Designation of Apparent Cause:

Sample size and count times of the samples may not have been sufficient to obtain LLD's within the ETS requirement. Natural radiation background may also have caused activity in the samples which can result in higher LLD's.

9. Analysis of Occurrence:

Of the 12 nuclides that had greater than allowed LLD's, 9 nuclides had no detectable activity and the other 3 nuclides had activities that were less than the preoperational 95 percentile values of those nuclides.

10. Corrective Action:

For the milk pathway, the occurrences were in the strontium 90 analyses and the 1977 annual average LLD for Sr-90 was equal to the required ETS LLD. Therefore, no further corrective action is necessary.

For the Marine Plant Pathway, the occurrence in 1977 was in the Sr-90 analyses and the 1977 annual average LLD for Sr-90 was equal to the required ETS LLD. Therefore, no further corrective action is necessary. The occurrences in 1978 were in the gamma analysis and was the first one for 1978. More efficient counting configurations

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SUPPLEMENTARY INFORMATION

-2-

and overnight count times are being tested to bring the LLD's for Marine Plants in line with those required. This research should be completed in time to apply the results to the next Marine Plant Samples.

11. Failure Data:

This is the seventh report for this type occurrence. Refer to:

LER 77-111E, dated 21 September 1977  
LER 77-134E, dated 8 November 1977  
LER 77-141E, dated 7 December 1977  
LER 77-144E, dated 15 December 1977  
LER 77-164E, dated 26 January 1978  
LER 78-012/04X-0, dated 17 April 1978