

SUPPLEMENTARY INFORMATION

1. Report No: 50-302/77-164E/04X-0
2. Facility: Crystal River Unit #3
3. Report Date: 24 January 1978
4. Occurrence Date: December 1977 (discovered 11 January 1977)
5. Identification of Occurrence:

Environmental samples were not analyzed using procedures which provided LLD's equal to or less than those required by the Environmental Technical Specifications.

6. Conditions Prior to Occurrence:

NA

7. Description of Occurrence:

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

<u>Seawater (6 stations)</u> (# >ETS)	<u>December 1977</u> 26
<u>Small Terrestrial Animals</u> (# >ETS)	<u>Second Half 1977</u> 9
<u>Green Leafy Vegetables</u> (# >ETS)	<u>Second Half 1977</u> 16

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 requirements. Natural radiation background may also have caused activity in the samples which can result in higher LLD's.

9. Analysis of Occurrence:

Of the 51 sample nuclides that had greater than allowed LLD's, 33 nuclides had no detectable activities and another 6 nuclides had activities less than the preoperational 95 percentile value.

The 12 remaining nuclides had activities that were greater than the preoperational 95 percentile value but less than 10 times that value. These 12 nuclides were mainly k-40 and naturally occurring Th-232.

10. Corrective Action:

Sample sizes and count times are being increased and a Technical Specification Change Request is being initiated to increase the LLD for k-40.

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11. Failure Data:

This is the fifth 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