



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

August 23, 1982

ERRATA SHEET

for

NUREG-0139  
Supplement No. 1  
Draft Report

DRAFT SUPPLEMENT TO FINAL ENVIRONMENTAL  
STATEMENT RELATED TO CONSTRUCTION AND OPERATION  
OF CLINCH RIVER BREEDER REACTOR PLANT

Please make the corrections and/or additions to your report as indicated  
on the attached pages.

DIVISION OF TECHNICAL INFORMATION  
AND  
DOCUMENT CONTROL

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NUREG-0139  
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DRAFT SUPPLEMENT TO FINAL ENVIRONMENTAL STATEMENT  
RELATED TO CONSTRUCTION AND OPERATION OF  
CLINCH RIVER BREEDER REACTOR PLANT

Docket No. 50-537

Page

- v In item (k) line 4, change "2 person-rems/yr" to "0.1 person-rems/yr."
- 5-10 In the first paragraph of Section 5.7, line 2, after "factors" insert "and estimates of airborne releases," and, line 4, after "factors" insert "and estimates of liquid effluents." Delete the second sentence.
- 5-11 At the beginning of Section 5.7.2.2, insert "In the first paragraph of FES Section 5.7.2.2., the first sentence has been modified to read: 'Expected radionuclide releases in the liquid effluent were calculated for the plant and are listed in Table 3.3, as amended in Section 3.5 of this supplement.'"

In Table A5.2, revise dose values as follows:

Pathway	Total Body	GI Tract	Thyroid
Beef injection (110 kg/yr)	< 0.01	< 0.01	< 0.01
Milk* injection (330 l/yr)	< 0.01	< 0.01	< 0.08
Water injection (370 kg/yr)	< 0.01	< 0.01	< 0.01

\*These dose rates are for an infant.

- 5-12 At the beginning of the first paragraph on the page, insert "In the first paragraph of this section of the FES, the third sentence has been modified to read: 'Under the same conditions the tritium concentration would be much less than 10 p Ci/ml.'" In the last line of the paragraph, replace "1.6 mrems/yr" with "less than 0.1 mrem/yr."

In Section 5.7.2.3, line 3, after "FES Table 3.4" insert "as amended in Section 3.5 of this supplement."

In Table A5.3, revise dose values as follows:

Pathway	Total Body	Skin	Thyroid
Inhalation	<0.01	<0.01	<0.01
Vegetable, meat, and milk food chains	0.02	0.02	0.02

5-19 In the first paragraph of Section 5.7.3, in lines 3 and 7, change "2 mrems/yr" to "1 mrem/yr."

In the second paragraph of Section 5.7.3, change "2 person-rems/yr" to "0.1 person-rem/yr."

5-20 In Table A5.5, revise the values of doses to the general public as follows:

Category	Population within 50 miles	U.S. Population
Gaseous effluents	0.03	0.05
Liquid effluents		
Fish injection		<0.01
Water injection	0.02	0.02
Beef injection	<0.01	<0.01
Milk injection	<0.01	<0.01

In line 3 of the text, replace "radioactive" with "radioactive."  
In line 10, after "170 person-rems" insert "including occupational exposure." In line 12, after "population" insert "Multiplying the U.S. population dose from exposure to radioactivity attributable to the normal annual operation of CRBRP and its related fuel cycle (i.e., 1170 person-rems) by the preceding genetic risk estimators, the staff estimates that." In the same line (12) delete "and."

5-21 In the first paragraph, line 4, after "first" insert "five," and change "generation" to "generations." In line 7, after "actual" insert "genetic." In line 8, change "31 million" to "150 million"; after "abnormalities" insert "in the U.S. population and"; and after "generations" insert "respectively."

10-14

In Table A10.2, revise the environmental cost values as follows:

Effect	Reference section	Summary Description
<u>Dose from exposure to Radioactivity</u>		
Cumulative	5.7.8	About 0.1 person-rem/yr to total 910,000 population within 50 miles in year 2010, insignificant compared to about $9.1 \times 10^4$ person-rems/yr from natural background.

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