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NRC C/O DDC CTAL BSK, C. PATEL  
DIRECTOR OF NUC. REACTOR REGULATION  
U. S. NUC. REGULATORY COMMISSION  
MAIL STATION P1-137

WASHINGTON  
20555

DC

May 14, 1992

Attached are the recent revisions of the Offsite Dose Calculation Manual (ODCM) Braidwood Station Annex Chapter 11.

Please complete the following manual update:

Remove

- Braidwood Station Annex  
Chapter 11, p. 11-1, 11-5, 11-6  
11-7, 11-17, Revision O.F  
December, 1991

Insert

- Braidwood Station Annex  
Chapter 11, p. 11-1, 11-5, 11-6  
11-7, 11-17, Revision O.G  
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BRAIDWOOD  
BRAIDWOOD ANNEX INDEX

REVISION O.G  
MAY 1992

PAGE      REVISION

CHAPTER 11

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Table 11-1 (Cont'd)

<u>Exposure Pathway and/or Sample</u>	<u>Sampling or Monitoring Locations<sup>a</sup></u>	<u>Sampling or Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
2. <u>Direct Radiation</u> (Cont'd)	BD-209-1, 4.8 mi S (7.7 km J) BD-209-2, 4.8 mi S (7.7 km J) BD-210-1, 4.9 mi SSW (7.9 km K) BD-210-2, 4.9 mi SSW (7.9 km K) BD-211-1, 4.8 mi SW (7.7 km L) BD-211-2, 4.8 mi SW (7.7 km L) BD-212-1, 4.7 mi WSW (7.6 km M) BD-212-2, 4.7 mi WSW (7.6 km M) BD-213-1, 4.5 mi W (7.2 km N) BD-213-2, 4.5 mi W (7.2 km N) BD-214-1, 4.3 mi WNW (6.9 km P) BD-214-2, 4.3 mi WNW (6.9 km P) BD-215-1, 4.5 mi NW (7.2 km Q) BD-215-2, 4.5 mi NW (7.2 km Q) BD-216-1, 4.4 mi NNW (7.1 km R) BD-216-2, 4.4 mi NNW (7.1 km R) Lake - 1, 1.0 mi E (1.6 km E) Lake - 2, 1.4 mi S (2.2 km J)		
	c. <u>Special Interest</u>	Quarterly	Gamma dose quarterly on each TLD.
	<u>Indicators</u>		
	Two TLDs at each of the airborne pathway indicator locations specified in Part 1 of this table.		

Table 11-1 (Cont'd)

<u>Exposure Pathway and/or Sample</u>	<u>Sampling or Monitoring Locations<sup>a</sup></u>	<u>Sampling or Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
2. <u>Direct Radiation</u> (Cont'd)	<u>Controls</u>  Two TLDs at each of the airborne pathway control locations specified in Part 1 of this table.		Gamma dose quarterly on each TLD.
3. <u>Waterborne<sup>e</sup></u>			
a. <u>Public Water</u>	BD-22, Wilmington, 5.0 mi NNE (8.0 km B)	Weekly	Gross beta and gamma isotopic analyses monthly composite. Tritium analysis on quarterly composite.
b. <u>Surface</u>	BD-07, Kankakee River upstream of discharge, 5.4 mi E (8.4 km E)  BD-10, Kankakee River downstream of discharge, 5.0 mi ENE (8.0 km D)  BD-25, Kankakee River upstream of discharge, 9.6 mi E (15.4 km E)	Weekly	Gamma isotopic analysis on monthly composite from each location. Tritium analysis on quarterly composite from each location.
c. <u>Ground/Well</u>	BD-13, Braidwood City Hall Well, 1.7 mi NNE (2.7 km B)	Biweekly <sup>f</sup>	Gross beta and gamma isotopic analysis on monthly composite. Tritium analysis on quarterly composite. I-131 analysis biweekly when the dose calculated for consumption is greater than 1 mrem/yr.

3. Waterborne<sup>e</sup>  
(Cont'd)

d. Cooling Water BD-08, Intake Pipe No. 3, 5.0 mi E (8.0 km E) Weekly Gross beta analysis  
BD-09, Discharge Pipe No. 4, 5.0 mi E  
(8.0 km E)

e. Shoreline Sediments BD-10, Kankakee River downstream of discharge, 5.0 mi ENE (8.0 km D) Semiannually Gamma isotopic analysis on each sample.

4. Ingestion<sup>e</sup>

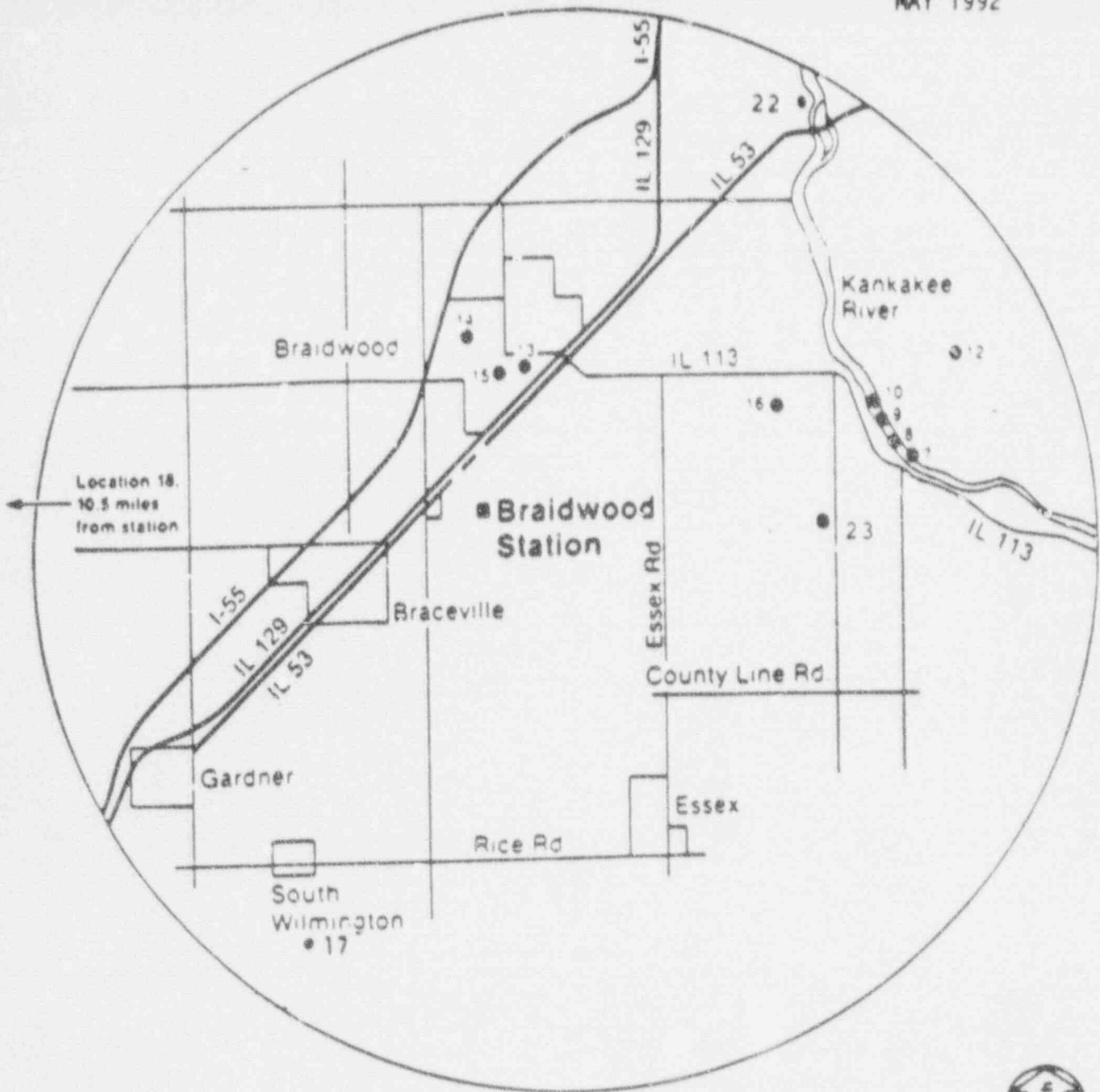
a. Milk Indicators Semimonthly: May to October Gamma isotopic and I-131 analysis on each sample.  
Monthly: November to April  
BD-17, Halpin's Dairy, 5.5 mi SSW (8.8 km K)  
BD-26, Gaddis Farm, 11.0 mi ESE (17.6 km F)  
BU-27, Prussner Farm, 11.0 mi S (17.7 km J)

Controls

BD-18, Biros Farm, 10.5 mi W (16.9 km N)

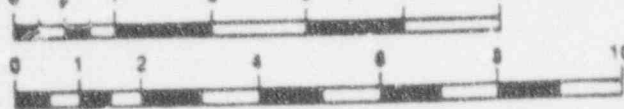
b. Fish BD-07, Kankakee River upstream of discharge, 5.4 mi E (8.7 km E) Three times a year (spring, summer, and fall) Gamma isotopic analysis on edible portions.  
BD-10, Kankakee River downstream of discharge, 5.0 mi ENE (8.0 km D)

c. Vegetables BD-14, Pinnick Farm, 1.8 mi N (2.9 km A) Annually Gamma isotopic analysis on edible portions.  
BD-15, Girot Farm, 1.4 mi N (2.2 km A)  
BD-16, Clay Farm, 3.3 mi ENE (5.5 km D)



Scale:

0 1 2 3 4 5 Miles



Kilometers

**OFFSITE DOSE CALCULATION MANUAL  
BRAIDWOOD STATION**

FIGURE 11-3

INGESTION AND WATERBORNE EXPOSURE  
PATHWAY SAMPLE LOCATIONS