



Commonwealth Edison
Braidwood Nuclear Power Station
Route #1, Box 84
Braceville, Illinois 60407
Telephone 815/458-2801

July 23, 1991
BW/91-0622

Director, Office of Resource Management
United States Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the revised Monthly Performance Report covering Braidwood Nuclear Power Station for the period June 1 through June 30, 1991.

This revision is being submitted in order to comply with Technical Specification, Section 6.14.2, which requires changes to the Offsite Dose Calculation Manual be submitted to the Commission within 90 days of the date the changes were made effective.

Very truly yours,

K. L. Kofron
Station Manager
Braidwood Nuclear Station

KLK/EWC/clf
(412/ZD85G)

Attachments

cc: (w/o attachments)
A. B. Davis, NRC, Region III
NRC Resident Inspector Braidwood
Ill. Dept. of Nuclear Safety
INPO Records Center
R. Pulsifer - USNRC
A. R. Checca

9107300261 910723
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R PDR

A009
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E. UNIQUE REPORTING REQUIREMENTS - Unit 1

1. Safety/Relief valve operations.

<u>DATE</u>	<u>VALVES ACTUATED</u>	<u>NO & TYPE ACTUATION</u>	<u>PLANT CONDITION</u>	<u>DESCRIPTION OF EVENT</u>
	NONE			

2. Licensee generated changes to ODCM.

See Attachment

E. UNIQUE REPORTING REQUIREMENTS - UNIT 2

1. Safety/Relief valve operations.

<u>DATE</u>	<u>VALVES ACTUATED</u>	<u>NO & TYPE ACTUATION</u>	<u>PLANT CONDITION</u>	<u>DESCRIPTION OF EVENT</u>
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None

2. Licensee generated changes to ODCM.

See Attached.

CHANGES TO THE OFFSITE DOSE CALCULATION MANUAL

Changes to the Offsite Dose Calculation Manual (ODCM) are reportable to the Nuclear Regulatory Commission (NRC) in accordance with station Technical Specifications. This document contains the models for the public dose assessment from gaseous effluents, liquid discharges, and direct radiation.

The NRC, per Generic Letter 89-01, requested that the information found in the station Radiological Effluent Technical Specifications to be transferred to the ODCM and Process Control Program (PCP), as applicable. The major changes to the ODCM complied with this request. The remaining minor changes were editorial, outstanding from the previous distribution, Revision 0, dated March, 1989.

This revision does not reduce the accuracy and reliability of dose calculations or set point determination methodology.

Any changes to the ODCM computer program required by this document are in the process of being implemented now and should be fully available by July 8, 1991.

MAJOR CHANGES

The generic manual both introduces and references the Radiological Effluent Technical Specifications contained in the site annexes, in Chapter 12, now titled the "Radiological Effluent Technical Standards (RETS)". "Operability Requirements" in the RETS are equivalent to Limiting Conditions for Operations in the station Technical Specifications.

The generic manual is common for six sites, therefore the reporting requirement for "Changes to the ODCM" deviates slightly from the recommendation given in the Generic Letter. An effective date for generic manual implementation is to specified in the station Onsite Review. As in the past, the official transmittal to the NRC is made through the stations' Monthly Operating Report within 90 days of the effective date.

MINOR CHANGES

The remaining minor changes are editorial. Below is the abbreviated version of an itemized list of changes available in Emergency Preparedness in at the Corporate Office:

- Revised titles for the Corporate Office Department and Positions
- Prepared a stand alone section for the EPA's Clean Air Act (if and when enacted)
- Deleted references to Commonwealth Edison (or CEC)
- Added text regarding the Wilmington Public Water Supply nearby Braidwood Station
- Corrected parameter symbols, values and units.

Braidwood On-site Review and Investigation Report

OSR Number: 91-211

Date: April 18, 1991

Subject Review: Red Hook Review of Offsite Power Administration Member
(OSRAM) per SA dated December 1989

Requested by: Louise A. Bayle, GSEP Inspector

Disciplines Required: ☒ A Nuclear Power Plant Technology
☐ B Reactor Operations
☐ C Reactor Engineering
☐ D Chemistry
☒ E Radiation Protection
☐ F Instrumentation and Control
☐ G Mechanical and Electrical Systems

Participants: TSS GSEP COORD
R.P. SAV
R.A.S.

OSR Membership Approved [Signature] 4-18-91
Technical Staff Supervisor / Date

10CFR50.59 Screening and/or Safety Evaluation is Required? - - - Y/N N
If yes, attach completed documentation in accordance
with BWAP 1205-6.

Concurrence Required by Offsite Review? (per Section C.10) - - - Y/N Y

Findings and Recommendations:

Previous OSR comments (#90-083) and (#90-134) still apply. This
OSR is to comply with the corporate request for incorporation of a,
effective date as April 25, 1991. RECOMMEND APPROVAL

On-Site Review Committee: Signature indicates concurrence with Findings and
Recommendations and 10CFR50.59 Safety Evaluation.

Signatures	Discipline(s)	Date
<u>Louise A. Bayle</u>		<u>4-13-91</u>
<u>[Signature]</u>	<u>ABCM</u>	<u>4-18-91</u>
<u>[Signature]</u>	<u>E</u>	<u>4-18-91</u>
<u>[Signature]</u>		<u>4-18-91</u>

Approved by: [Signature]

STATION MANAGER

4/18/91
DATE

APPROVED

MAR 11 1991

SUMMARY OF CHANGES

SUBJECT	PAGE	ACTION	DESCRIPTION
Signature Page	N/A	Revision	Revised Emergency Preparedness Supervisor to Director.
ODCM Revision Index	i	Revision	Updated to include a new index designations on pp i-xii.
Special Notes	ii	Deletion	Deleted page. Page number is used for a new index designations.
Revision Designation		Deletion	The new index designations are identified on pp i-xii.
Organization of this Manual		Deletion	Refer to Section 1.4, p 1-6.
10CFR20		Revision	Refer to Section 1.2.1, p 1-4.
Notation for Powers of 10		Revision	Transferred paragraph to a note in Section 4.2.1.1, p 4-12.
Table of Contents	iii	Deletion	Deleted page. Page number is used for a new index designations.
	iv	Revision	Page number is used for a new index designations, refer to revised pages TOC for Table of Contents.
			Retitled the Table of Contents to Summary of Topics.
			Revised 9.0 caption from "References" to "Reserved for the Clean Air Act".
			"References" is a subject-titled chapter. Revised Part II, to include Chapter 12.
Notes on Table of Contents	v	Deletion	Deleted page. Consolidated a listing of contents, appendices, tables, and figures in front of the generic manual.
Detailed Listing of Contents	v	Deletion	Deleted page.
Listing of References	v	Deletion	Deleted page. The references are contained in: a subject-titled chapter.
List of Acronyms	viii	Addition	Page number is used for a new index designations, refer to revised p TOC-17 to 20.
			Inserted Nuclear Services Emergency Preparedness and Operability Requirements on p TOC-19.
		Revision	Revised the "S" in RETS from Specifications to Standards on p TOC-19.
	ix	Addition	Inserted Unit Review Group on p TOC-20.

Chapter 1

Table of Contents	1-i	Revision	Revised Section heading 1.2.4. from p 1-5 to 1-5a.
	1-iii	Deletion	Deleted at CECe Nuclear Stations.
Section 1.0	1-2	Deletion	Deleted CECe four times.
		Addition	Inserted the acronym, (ODCM).
	1-3	Revision	Revised Technical Specifications to Radiological Effluent Technical Standards.
		Deletion	Deleted CECe.
Section 1.1.1	1-3	Deletion	Deleted in.
Section 1.2.1	1-4	Revision	Incorporated text from p ii.
Section 1.2.2	1-5	Revision	The bold text was inserted and the barred text was deleted. The NRC requires that the stations' Radiological Effluent Technical Specifications, formally a subset of the Technical Specifications, shall be incorporated into the ODCM (see Reference, 80). A Radiological Effluent Technical Standards (RETS) section for each station is found in the site specific annexes in Chapter 12. In a station's Radiological Effluent Technical Specifications (RETS), a subset of its Technical Specifications, various radiological limits of The RETS contain various radiological limits mandated by the Code of Federal Regulations and are made conditions of the stations' operating license. Typical offsite dose and concentration limits of the RETS are summarized in Tables 1-1 through 1-3.
Section 1.2.3	1-5	Deletion	The bold text was inserted and the barred text was deleted. Compliance with the dose limits in the RETS is determined primarily by calculations based on measurements of radioactivity in stations effluents. The RETS Technical Specifications required each station to have a document called the Offsite Dose Calculation Manual (ODCM) to provide the methodology and parameters for these calculation. This manual is submitted by each station to the NRC for review and is maintained by the station in accordance with procedures specified in its Technical Specifications. Changes in the manual are subject to a prescribed internal review process and then submitted distributed to the NRC.
Section 1.2.4	1-5	Revision	The text from p 1-5 is unchanged and is found on p 1-5a.
Section 1.3	1-6	Deletion	Deleted CECe.

Chapter 1 Cont'd

Section 1.4	1-6	Revision	Inserted the acronym, ODCM, for Offsite Dose Calculation Manual.
		Deletion	Deleted C&Co.
		Addition	Inserted Chapter 12 end.
		Deletion	Deleted at Commonwealth Edison Company.
		Deletion	Deleted Chapter 9 contains references for all of the generic portions of this manual.
Table 1-3	1-9	Addition	Inserted Chapter 12 is the stations' RETS.
		Revision	Revised Technical Specifications to RETS.
		Deletion	Deleted at C&Co Nuclear Stations.
		Revision	Revised Tech Specs to RETS.
		Deletion	Deleted at C&Co Nuclear Stations.
Figure 1-2	1-12	Revision	Revised Technical Specifications to RETS.
		Deletion	Deleted at C&Co Nuclear Stations.
	1-13	Revision	Revised Technical Specifications to RETS.
		Deletion	Deleted at C&Co Nuclear Stations.

Chapter 2

Table of Contents	2-i	Revision	Revised Section heading 2.2.2 from p 2-8 to 2-8c.
		Revision	Revised Section heading 2.2.2.1 from p 2-8 to 2-8c.
		Revision	Revised Section heading 2.2.2.5 from p 2-10 to 2-11.
		Revision	Revised Section heading 2.3 from p 2-10 to 2-12.
List of Tables	2-ii	Deletion	The barred text was deleted and the bold text was inserted
			Table heading 2-2.
Section 2.1.2	2-3		Standard Radiological Effluent Technical Standards
			Specification in NUREG-0472 and NUREG-0473
Section 2.1.2.1	2-3	Revision	inserted text from Section 2.2, p 2-6 and 2-7.
		Revision	inserted the acronym, NRC, for Nuclear Regulatory Commission on p 2-3.
Section 2.1.2.2	2-4	Revision	The text from p 2-3 is unchanged and is found on p 2-4.
		Revision	Revised plant Technical Specification to station RETS.
	2-5	Revision	The text from p 2-4 is unchanged and is found on p 2-4a.
		Revision	The text from p 2-5 is unchanged and is found on p 2-4a.
Section 2.1.4	2-6	Revision	The text from p 2-6 is unchanged and is found on p 2-5.
		Revision	The bold text was inserted and the barred text was deleted.
Section 2.2	2-6		However, four five CECE stations (Braidwood, Dresden, LaSalle, Quad Cities, and Zion) have special requirements related to 40CFR141 in their Technical Specifications RETS.
		Deletion	Transferred text from Section 2.2 p 2-6 and 2-7 to Section 2.1.2, p 2-3.
	2-7	Revision	The bold text was inserted and the barred text was deleted on p 2-6.
			The Radiological Effluent Technical Specifications (RETS) were formerly form a subset of the Technical Specifications.
			They implement provisions of the Code of Federal Regulations aimed at limiting offsite radiation dose. The NRC publishes standard Radiological Effluent Technical Specifications RETS for PWRs (Reference 2) and standard RETS for BWRs (Reference 3).
			These documents have undergone frequent minor revisions to reflect changes in plant design and evolving regulatory concerns.
		Addition	The bold text was inserted and the barred text was deleted.
			This section has been removed from the Technical Specifications and placed in the ODCM as Radiological Effluent Technical Standards (RETS). Refer to the NRC Generic Letter 89-01 (Reference 80). The acronym, "RETS", remains due to its high recognition. The purpose for retaining "RETS" is to ease the transition of the Standard's placement to the ODCM and reduce the likelihood for inadvertent noncompliance.

Section 2.2.1

2-7

Revision

The bold text was inserted and the barred text was deleted.

The RETS of each CECe station are similar, but are not identical, to one of the standard versions Radiological Effluent Technical Specifications.

Revision

Revised RETS to Radiological Effluent Technical Specifications.

2-8

Revision

inserted the acronym, ODCM, for Offsite Dose Calculation Manual.

2-8

Addition

The bold text was inserted.

The major categories of items in RETS are the following:

* Definitions

A glossary of terms found in but are not limited to the ODCM.

* Instrumentation

This section states the Operability Requirements (OR) for instrumentation performance as well as the associated Surveillance Requirements. These conservative alarm/trip setpoints ensure the regulatory compliance for both liquid and gaseous effluents. Surveillance Requirements are listed to ensure ORs are met through testing, calibration, inspection and calculation. Also included for such categories are the Bases for interpreting the requirements.

The Operability Requirement or an OR is the ODCM equivalent of a Limiting Condition for Operation as defined in both the Standard Radiological Effluent Technical Specifications and the stations' Technical Specifications.

* Liquid Effluents

This section addresses the limits, special reports and liquid waste treatment systems required to substantiate the dose due to liquid radioactivity concentrations to unrestricted areas. Surveillance Requirements and Bases exist for liquid effluents.

* Gaseous Effluents

This section addresses the limits, special reports, gaseous radwaste and ventilation exhaust treatment systems necessary for adequate documentation of the instantaneous offsite radiation dose rates and doses of a member of the public. Surveillance Requirements and Bases exist for gaseous effluents.

Section 2.2.1 2-8 cont. Addition

* Environmental Monitoring

This section delineates the environmental monitoring program involving sample collection and measurements to verify that the radiation levels released are minimal. This section describes a land use census and participation in an interlaboratory comparison program. Surveillance Requirements and Bases exist for environmental monitoring.

* Recordkeeping and Reporting

This section serves as an administrative guide instituted to maintain an appropriate recordtracking system. The management of procedures, record retention, review/audit and reporting are discussed.

Section 2.2.2 2-8 Revision
Deletion

Revised RETS to Radiological Effluent Technical Specifications on p 2-8c.
Deleted CECs on p 2-8c.

Section 2.2.2.1 2-8 Revision
Revision
2-9 Revision
Revision

Revised RETS to Radiological Effluent Technical Specifications on p 2-8c.
The text from p 2-9 is unchanged and is found on p 2-8c.
Revised RETS to Radiological Effluent Technical Specifications.
Inserted the acronym, PCP.

Section 2.2.2.2 2-9 Revision

Revised RETS to Radiological Effluent Technical Specifications.

Section 2.2.2.3 2-10 Revision
Revision

* * * * *
Revised RETS of CECs to the stations' Technical Specifications.

Section 2.2.2.5 2-10 Revision
Revision

The text from p 2-10 is found on p 2-11.
Revised RETS to Radiological Effluent Technical Specifications on page 2-11.

Section 2.3 2-11 Revision
Revision

Inserted the acronym, PCP, for Process Control Program.
Revised RETS to Radiological Effluent Technical Specifications on page 2-12.

Section 2.3 2-12 Revision

Revised the definition of ODCM to that recommended in the Generic Letter 89-01.

Section 2.5.1 2-13 Revision

Inserted the acronym, NRC, for Nuclear Regulatory Commission.

Table 2-2 2-16,17 Revision

Revised RETS sections references.

Table of Contents
Section 3.03-ii
3-1
Deletion
RevisionDeleted NRC and GEC from Table headings 3-2 and 3-3.
Combined paragraphs.

The bold text was inserted and the barred text was deleted.

In calculating radiation doses, only those pathways which contribute significantly need to be considered evaluated. The air and water

pathways routinely considered, by the staff of the Nuclear Regulatory

Commission and by Commonwealth Edison Company are shown schematically

in Figures 3-2 and 3-3. The NRC considers the pathways indicated by

both the dashed and the solid lines (see Regulatory Guide 1.109,

Reference 6), while GEC considers only the pathways indicated by

the solid lines.

Inserted the acronym, NRC, for Nuclear Regulatory Commission.

Deleted GEC and inserted The stations.

Deleted GEC and inserted The stations four times.

The bold text was inserted and the barred text was deleted.

In addition to the liquid pathways considered in Regulatory Guide 1.109,

GEC evaluated water recreational activities (swimming and boating) and

found the dose contribution to be of little importance; the stations

verified that the dose contribution from participating in water recreational activities (swimming and boating) is negligible.

Deleted GEC.

Deleted GEC and inserted the stations.

Deleted NRC and GEC from Figure heading 3-2.

Deleted GEC and inserted the stations.

Deleted NRC and GEC from Figure heading 3-3.

Section 3.1

Section 3.1

Section 3.2

3-1

3-2

3-3

Revision

Deletion

Deletion

Revision

Section 3.3

Figure 3-2

Figure 3-3

3-3

3-5

3-6

Deletion

Revision

Deletion

Deletion

Deletion

Chapter 4

List of Tables	4-ii	Deletion	Deleted by CECe in Table heading 4-2.
	4-1	Deletion	Deleted CECe.
		Revision	Revised Radiological Effluent Technical Specifications to RETS.
Section 4.1.1	4-1	Revision	Revised "kept in mind" to "kept in retrospect".
Section 4.1.3	4-2	Deletion	Deleted CECe.
		Revision	The text from p 4-2 is unchanged and is found on p 4-3.
		Revision	Revised Radiological Effluent Technical Specifications to RETS on page 4-3.
Section 4.1.4	4-5	Deletion	Deleted CECe.
Section 4.1.5	4-5	Revision	Revised Table D-5 to D-9.
	4-6	Deletion	Deleted CECe.
Section 4.2	4-9	Revision	Revised Radiological Effluent Technical Specifications to RETS.
Section 4.2.1	4-11	Revision	Revised the Maximum Beta Energy Range from 0.44 to 0.34 ft.
Section 4.2.1	4-12	Revision	Revised Technical Specifications to RETS.
Section 4.2.1.1	4-12	Revision	Revised the gamma abbreviation to the symbol in Equation 4-3.
		Revision	Transferred text, "Notations for Powers of 10", from p ii.
		Revision	The text from p 4-12 is unchanged and is found on p 4-12a.
	4-14	Revision	Revised "sections" to "section".
Section 4.2.1.2	4-14	Revision	Revised the beta abbreviation to the symbol in Equation 4-4.
	4-15	Revision
	4-16	Revision	Revised Table D-10 to D-14.
		Addition	Inserted the before ...gamma dose factor, the shape ...
Section 4.3	4-31	Revision	Revised Radiological Effluent Technical Specifications to RETS.
		Deletion	Deleted CECe.
	4-32	Revision	The bold text was inserted and the barred text was deleted. The radioactivity concentration in water C^* , [pCi/l] is the product of the following: obtained by dividing the radioactivity released [pCi] by the volume of water [L] in which the release is diluted (e.g., the flow in L/hr multiplied by the time period of concern in hours). The result is multiplied by the following:
	4-33	Deletion	Delete the barred text: The radioactivity release [pCi], The volume of water which the release is diluted (e.g., flow rate in L/hr multiplied by the time period of concern in hours).
	4-33	Deletion	Deleted CECe.

Chapter 4 Cont'd

Section 4.4	4-33	Deletion	Deleted GEGe.
	4-34	Deletion	Deleted "GEGe-stations" and inserted "stations".
Table 4-2	4-36	Deletion	Deleted by GEGe.

Chapter 5

Section 5.0	5-1	Deletion	Deleted GEGe.
Section 5.1	5-1	Revision	Revised Technical Specifications to RETS.
		Deletion	Deleted RETS following standard Radiological Effluent Technical Specifications.
Section 5.3	5-2	Addition	Inserted standard Radiological Effluent Technical Specifications.
	5-4	Revision	Deleted of the standard RETS.
		Revision	Revised Technical Specifications to RETS.
	5-5	Revision	Revised RETS to Radiological Effluent Technical Specifications.
		Deletion	Deleted GEGe.
	5-6	Revision	Revised RETS to Radiological Effluent Technical Specifications. * * * * *
Deletion		Deleted GEGe.	
Section 5.3.1	5-7	Revision	The bold text was inserted and the barred text was deleted. Participation in the Interlaboratory Comparison Program is in accordance with the following Technical Specification provisions: Section 12.5 of each station's RETS.
		Deletion	The stations' Technical Specifications references were deleted.

Chapter 6

Section 6.1	6-1	Deletion	Deleted RETS.
Section 6.2.1	6-2	Revision	Revised RETS to Radiological Effluent Technical Specifications.
Section 6.2.2	6-3	Revision	* * *
Section 6.2.3	6-4	Revision	* * *
		Deletion	The barred text was deleted.
			The purpose of the Process Control Program is to ensure that wastes are packaged properly so that shipping, transportation, and disposal site requirements are satisfied. Parameters to be considered include:
			Waste type, pH, oil content, water content, solids content, and principal chemical constituents.
			Solidification agent, catalyst ratios, and mixing and curing times.
			As part of the program, the solidification of representative test specimens of wet radioactive waste must be verified.
Section 6.3	6-4	Addition	Inserted Generic Letter 89-01 definition for the Process Control Program.
Section 6.4	6-5	Revision	Revised RETS to Radiological Effluent Technical Specifications.
			* * *

Chapter 7

List of Figures	7-iii	Addition	Inserted Regulatory Guide 4.8 for in List of Figures heading 7-1.
		Revision	Revised "of" to "for".
Section 7.0	7-1	Revision	Revised RETS to Radiological Effluent Technical Specifications.
		Deletion	The barred text was deleted.
			Similar reports are required for each CECe station. The following sections of station Technical Specification should be consulted for the appropriate details:
		Deletion	The stations' Technical Specifications references were deleted.
		Addition	The bold text was added.
			Sections 12.6 of each station's RETS should be consulted for the appropriate details.
Section 7.1	7-2	Deletion	Deleted CECe.
		Revision	Revised Process Control Program to PCP.
		Revision	Revised Technical Specifications to RETS.
Section 7.2	7-3	Deletion	Deleted CECe four times.
		Revision	Revised Technical Specifications to RETS.
		Revision	Revised Section 4.3 to 5.3.
	7-4	Revision	Revised Technical Specifications to RETS.
		Deletion	Deleted CECe.
Section 7.3	7-4	Deletion	* *
	7-5	Deletion	* *
		Revision	Revised Technical Specifications to RETS.
Section 7.4.2.2	7-7	Deletion	Deleted CECe.
		Revision	Revised Technical Specifications to RETS.
	7-8	Deletion	Deleted CECe.
Table 7-1	7-9	Deletion	Stations' Technical Specifications references were deleted.
	7-10	Addition	Condensed Table 7-1 onto single page, p 7-10 is intentionally left blank.

Chapter 8

Section 8.0	8-1	Revision	Revised Technical Services Emergency Planning to Nuclear Services Emergency Preparedness.
		Revision	Revised CECe organization plan from January to December, 1989.
Section 8.1	8-2	Revision	Revised Process Control Program to PCP.
Section 8.2	8-2	Revision	Inserted the acronym, NSEP, for Technical Services Emergency Planning to NSEP.
Section 8.3	8-3	Revision	* * * * *
Section 8.4	8-3	Revision	* * * * *
		Revision	Inserted the acronym, ODCM, for Offsite Dose Calculation Manual.
		Revision	Revised Computer Services Division to Information Services.

Chapter 9

9-1	Revision	The references contained in Chapter 9 were transferred to a subject titled chapter.
9-1	Addition	Inserted Reserved for Clean Air Act.

References

R-1	Revision	Subject titled chapter, References.
R-8	Addition	Added Reference 80, Generic Letter 89-01.
	Addition	Added Reference 81, "Assessment of the Impact of Liquid Radioactive Effluents from Braidwood Station on Proposed Public Water Intakes & Wilmington, Illinois", J.C. Golden, NSEP, January 1990.

Appendix A

	A-i	Deletion	Deleted Types in Release Point Classifications in Section heading A.1.1.
		Revision	Revised Section heading A.1.1 from p A-43 to A-44.
	A-ii	Deletion	Deleted CECe and Ir. and Station in Section heading A.4.2.
	A-iii	Deletion	Deleted for CECe Nuclear Stations in Table heading A-1
Section A.1.1		Deletion	Deleted Affected by CECe Nuclear Stations in Table heading A-1.
	A-1	Deletion	Deleted CECe.
Section A.1.2.1		Deletion	Deleted Types in Release Point Classifications in Section heading A.1.1.
	A-2	Deletion	Deleted CECe.
	A-2	Deletion	The barred text was deleted.
		Addition	The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications: The bold text was added.
Section A.1.2.2		Addition	Sections 12.4 of each station's RETS contain a somewhat similar provision.
	A-3	Deletion	The stations' Technical Specifications references were deleted.
	A-4	Deletion	The barred text was deleted.
		Addition	The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications: The bold text was added.
		Addition	Sections 12.4 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
		Revision	Revised Technical Specifications to RETS.
	A-5	Deletion	The barred text was deleted.
		Addition	The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications: The bold text was added.
		Addition	Sections 12.4 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
		Revision	The text from p A-6 is unchanged and is found on p A-5.
	A-6	Revision	Revised Section 4.1.5 to 4.1.6 in the definition for (X/Q) _g .
	A-7	Deletion	The barred text was deleted.
		Addition	The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications: The bold text was added.
		Addition	Sections 12.4 of each station's RETS contain a somewhat similar provision.

Appendix A Cont'd.

Section A.1.2.2	A-7	Deletion	The stations' Technical Specifications references were deleted.
	A-8	Deletion	* * * * *
Section A.1.2.3	A-8	Deletion	The barred text was deleted.
			The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added.
			Sections 12.4 of each station's RETS contain a somewhat similar provision.
	A-9	Deletion	The stations' Technical Specifications references were deleted.
	A-10	Addition	Added (see Section A.3) in Application statement.
	A-11	Deletion	The barred text was deleted.
			The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added.
			Sections 12.4 of each station's RETS contain a somewhat similar provision.
Section A.1.2.4		Deletion	The stations' Technical Specifications references were deleted.
	A-11	Revision	The text on p A-12 is unchanged and found on p A-11.
	A-12	Addition	Added (see Section A.3) in Application statement.
Section A.1.3.1	A-12	Deletion	The barred text was deleted.
			The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added.
			Sections 12.4 of each station's RETS contain a somewhat similar provision.
	A-13	Deletion	The stations' Technical Specifications references were deleted.
	A-14	Deletion	The barred text was deleted.
			The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added.
			Sections 12.4 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
		Deletion	Deleted CECe.

Appendix A Cont'd

Section A.1.3.2	A-14	Deletion	The barred text was deleted. The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added. Sections 12.4 of each station's RETS contain a somewhat similar provision.
	A-15	Deletion	The stations' Technical Specifications references were deleted.
		Revision	The text on p A-16 is unchanged and found on p A-15.
Section A.1.4.	A-16	Deletion	The barred text was deleted. The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added. Sections 12.4 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
		Deletion	The barred text was deleted. The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
	A-17	Addition	The bold text was added. Sections 12.4 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
		Deletion	The barred text was deleted.
		Deletion	The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
	A-18	Addition	The bold text was added. Sections 12.4 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
	A-20	Deletion	Deleted CECe.
		Deletion	The barred text was deleted. The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added. Sections 12.4 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.

Appendix A Cont'd

Section A.1.4.1	A-21	Addition	Inserted parenthesis around the DFGij units [(mrem/hr)/(pCi/m2)].
	A-22	Revision	Revised Section 4.1.6 to 4.1.7 in the (D/Q) _g definition.
Section A.1.4.2	A-23	Revision	Revised Section 4.1.5 to 4.1.6 in the (X/Q) _g definition.
Section A.1.4.3	A-24	Revision	Added dots above the symbol I, rate of ingested activity, in Equation A-18.
		Addition	Added hyphen in radionuclides in D ^{hnd} _g definition.
	A-25	Addition	Inserted Rate of Ingestion of for ingestion in the definition.
		Revision	Added dots above the symbol I, rate of ingested activity, in the Equations A-19 through A-22.
Section A.1.4.3.1	A-27	Addition	Added See Tables D-6 and D-7 of Appendix D in the Weathering Decay Constant, $\lambda_{w\alpha}$ in the definition.
Section A.1.5	A-30	Revision	Revised Technical Specification 3.11.2.2 to 3.11.2.1.
	A-31	Deletion	The barred text was deleted.
			The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added.
			Sections 12.4 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
		Revision	Revised Technical Specifications to RETS.
		Deletion	Deleted CECe.
		Revision	Revised specifications to RETS.
		Deletion	Deleted CECe.
	A-33	Deletion	The barred text was deleted.
			The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added.
			Sections 12.4 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
		Deletion	Deleted CECe.
		Revision	Revised Technical Specifications to RETS.
Section A.1.6	A-34	Revision	* * * * *
		Deletion	Deleted CECe.
		Revision	Revised "specifications" to "sections".
		Revision	Revised Braidwood Technical Specifications Section from 3.11.2.4 to 12.4.4.
		Revision	Revised Byron Technical Specifications Sections from 3.11.2.4 to 12.4.4.
		Revision	Revised LaSalle Technical Specifications from 3.11.2.5 to 12.4.5.

Appendix A Cont'd

Section A.1.6	A-34	Deletion	The barred text was deleted. (see Braidwood and Byron Specifications 4.11.2.4.1 and LaSalle Specification 4.11.2.5.1).
		Deletion	The bold text was inserted and the barred text was deleted. In addition, Dresden 2/3 and Quad Cities 1/2 are required to operate the off-gas treatment system at certain times (See Dresden and Quad Cities Specification 3.8.A.4) . In conjunction with this requirement, Dresden and Quad Cities are required to project offsite doses treated by the off-gas treatment system at least once per 31 days (see Dresden and Quad Cities Specification 4.8.A.4 12.4.4)
Section A.1.6	A-35	Deletion	Deletes "s" in radionuclides.
Section A.2.1	A-36	Deletion	The barred text was deleted. The Technical Specifications of each CECo station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added. Sections 12.3 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
		Addition	Inserted parenthesis around (U^*M^*/F^*) in Equation A-30.
		Addition	Inserted parenthesis around (U^*M^*/F^*) in Equation A-31.
		Addition	Added hyphen between radioactivity in D^{*j} definition.
	A-37	Revision	Deleted Additional in $1/M^*$, $1/M^j$ definition.
		Revision	Revised "Additional" to "Measure of".
	A-38	Addition	Inserted units, L/Kg, in B_i definition.
		Deletion	The barred text was deleted. The Technical Specifications of each CECo station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added. Sections 12.3 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
Section A.2.2	A-39	Revision	The text from p A-39 is unchanged and is found on p A-38.

Appendix A Cont'd

Section A.2.2	A-39	Deletion	The barred text was deleted. The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added. Sections 12.3 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
	A-40	Revision	Revised Technical Specifications to RETS.
		Revision	The text from p A-40 is found on p A-39.
		Revision	Revised Technical Specifications to RETS on page A-39.
	A-41	Deletion	Deleted CECe on p A-39.
		Deletion	The barred text was deleted. The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
		Addition	The bold text was added. Sections 12.3 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
Section A.2.4	A-43	Deletion	Deleted CECe.
		Revision	Revised Technical Specification to RETS.
		Addition	Added Also refer to LaSalle 1/2 RETS Section 12.3.4.
Section A.2.5	A-43	Revision	The text from p A-43 is unchanged and is found on p A-44.
		Deletion	The barred text was deleted. The Technical Specifications of each CECe station contain a somewhat similar provision. For exact requirements, see the following specifications:
	A-44	Addition	The bold text was added. Sections 12.3 of each station's RETS contain a somewhat similar provision.
		Deletion	The stations' Technical Specifications references were deleted.
		Revision	The barred text was deleted. Each station except Zion is required to project doses due to liquid releases at least once per 31 days (see Braidwood, Byron, and LaSalle Specifications 4.11.1.2.1 and Dresden 2/3 and Quad Cities Specifications 4.8.B.2). Zion is required to project doses due to liquid releases at least once a month (See Zion Specification 4.11.4.A.1).

Appendix A Cont'd

Section A.2.5	A-45	Revision	The text from p A-45 is unchanged and is found on p A-44.
Section A.2.6	A-45	Revision	The bold text was inserted and the barred text was deleted. Four Five stations (Braidwood, Dresden, LaSalle, Quad Cities, and Zion) have requirements for calculation of drinking water dose that are related to 40CFR141, the Environmental Protection Agency National Primary Drinking Water Regulations.
Section A.3	A-45	Revision	The barred text was deleted and the bold text was inserted. The Technical Specifications of each CECe station Each station's RETS contain a somewhat similar provision. For exact requirements, see the following specifications: The barred text was deleted and the bold text was inserted on p 45.
	A-45	Revision	Braidwood 1/2: 2.11.4 12.4
	A-45	Addition	Byron 1/2: 2.11.4 12.4
			2.11.4 12.4
			Dresden 1: 12.4
			Dresden 1/2: 2.8.A.2.d, 2.8.A.3.d, 2.8.B.2.d 12.3 and 12.4
			Quad Cities 1/2: 2.8.A.2.d, 2.8.A.3.d, 2.8.B.2.d 12.3 and 12.4
			Zion 1/2: 2.12.3.A. and B (see associated Action Items b and c). 12.3 and 12.4
	A-47	Revision	The text from p A-47 is unchanged and is found on p A-46.
		Revision	Revised Technical Specifications to RETS.
		Deletion	Deleted CECe.
		Revision	Revised Technical Specifications to RETS.
Section A.3.1	A-50	Revision	The barred text was deleted and the bold text was inserted. For the Braidwood and Zion sites, whole body dose commitment due to consumption of drinking water from the community water supply supplies nearest the stations.
	A-51	Deletion	inserted the. Deleted CECe and inserted "four".
	A-52	Deletion	Deleted CECe.
Section A.3.2	A-52	Deletion	* *
	A-53	Deletion	* *
Section A.3.3	A-55	Deletion	* *
		Revision	Revised reference from Section E.11 to E.11.2.
Section A.4.2	A-56	Deletion	Deleted CECe and inserted "Station" in Section heading A.4.2.
		Revision	Revised Technical Specifications reference from 4.8.B.2.b to Section 12.3.

Appendix A Cont'd

Section A.4.2	A-57	Deletion	Deleted Technical Specification reference 3.11.1.2.b.
		Revision	Revised Technical Specification reference 3.11.2 to Section 12.3.
Section A.4.3	A-57	Deletion	Deleted Technical Specification reference 3.11.2.A.1.
		Revision	Deleted CECe and inserted ODCM.
		Deletion	Deleted by CECe.
Table A-1	A-58	Deletion	Deleted "for CECe Nuclear Station".
		Revision	Revised Zion Technical Specifications reference from 3.12 and 4.12 to Section 12.4.
Table A-2	A-59	Deletion	Deleted "Affected by CECe Nuclear Stations".
		Revision	Revised "Peoria, 121 river miles" to "Wilmington, 4 river miles".
		Revision	Revised other CECe Nuclear Stations from "DNPS and LSCS" to "None".
		Addition	Revised footnote from "a" on p A-59 to "c" on p A-60. Footnote a originally provided information on radioactive liquid effluent flow paths downstream from Byron and Quad Cities Stations. Now the reference directs the reader to Table E-2 of Appendix E.

Appendix B

Table of Contents	B-ii	Revision	Revised Section B.6.3 from p B-30 to B-31.
		Addition	Inserted "j" after DFG _i in Section B.8.
	B-1	Addition	The bold text was inserted. These are used to account for the release of radioactivity to the environment and the exposure of persons to it.
Section B.1.1	B-3	Deletion	Deleted C₀ .
Section B.1.2	B-3	Deletion	Deleted "s" following JFD.
Section B.1.2.1	B-4	Deletion	Deleted C₀ .
Section B.2.2	B-12	Revision	The bold text was inserted and the barred text was deleted in the X_{max} definition. The time-average concentration of airborne radioactivity in a sector on the at ground level at a distance X from the release point.
Section B.3.1.	B-14	Addition	Inserted at ground level in $(X/Q)_s$ definition.
Section B.3.1.1.1	B-17	Addition	inserted units, [1/sec ²], in S definition.
Section B.3.1.1.2	B-18	Deletion	Deleted C₀ .
Section B.3.2	B-18	Addition	Inserted at ground level in $(X/Q)_s$ definition.
Section B.3.3	B-20	Addition	Inserted at ground level in $(X/Q)_s$ definition.
Section B.4.1	B-21	Revision	Revised "h ₀ " to "h _e " in Equation B-31.
	B-22	Revision	Revised "h ₀ " to "h _e " in both D _i and h ₀ definitions.
		Addition	Inserted "effective" before release heights in D _i and h ₀ definitions.
		Revision	Revised "than" to "then" in D _i definition.
		Revision	Revised "actual" to "effective" in h ₀ definition.
Section B.4.3	B-23	Revision	Revised "h ₀ " to "h _e " in Equation B-33.
Section B.5.1	B-25	Addition	Inserted at ground level in S _i definition.
	B-27	Revision	Revised RG reference from 1.111 to 1.109 in I(...) definition.
Section B.5.2	B-27	Addition	Inserted at ground level in G _i definition.
Section B.5.3	B-28	Addition	Inserted at ground level in V _i definition.
Section B.6.1	B-30	Addition	Inserted at ground level in \hat{S}_i definition.
		Addition	Inserted "g/" in 5 cm in t _e definition.
Section B.6.2	B-30	Addition	Inserted at ground level in G _i definition.
Section B.6.3	B-31	Addition	Inserted at ground level in V _i definition.
Section B.8	B-32	Addition	Inserted "j" after DFG _i .
Section B.9	B-32	Revision	The text from p B-32 is unchanged and is found on p B-33.
Section B.13	B-33	Revision	The text from p B-33 is unchanged and is found on p B-33a.

Appendix C

	C-1	Deletion	Deleted C_0C_0 .
Section C.1.1	C-1	Addition	Inserted parenthesis around (U^*M^*/F^*) in Equation A-30.
	C-2	Deletion	Deleted $*1^*$ in $(1/M)$ in Equation C-1.
		Addition	Inserted parenthesis around (M/F) in Equation C-2.
	C-3	Addition	Inserted parenthesis around (M/F) in Equation C-3.
Section C.1.2	C-3	Deletion	Deleted C_0C_0 .
		Addition	Inserted parenthesis around (U^*M^*/F^*) in Equation A-31.
Section C.1.3.1	C-4	Revision	The bold text was inserted and the barred text was deleted. The values of dilution flow rate F , additional dilution factor $1/M$, and decay period t can differ for water and fish.
Section C.1.3.1.1	C-4	Revision	The bold text was inserted and the barred text was deleted. For the purpose of calculating the drinking water dose from liquid effluents discharged into a river, it is assumed that total mixing of the discharge in the river flow (F^*) occurs prior to consumption. The measure of dilution used parameter $1/M^*$, and may be thought of as the fraction of full river flow in which dilution occurs. $1/M^*=1$ represents full dilution. $1/M^*$ less than 1 represents dilution in only a portion of the river. No additional dilution is assumed to occur.
Section C.1.3.1.2	C-5	Deletion	Deleted C_0C_0 .
		Deletion	Deleted addition.
Section C.1.3.3	C-6	Revision	Revised $*A_1^*$ to $*A_1$.
Section C.1.3.4	C-6	Revision	Revised Table reference from D-8 to 12.

Appendix D

Table of Contents	D-ii	Deletion	Deleted Horizontal and in Table D-10.
Section D.1	D-1	Deletion	Deleted CECs.
Table D-7	D-19	Revision	The data from p D-19 is unchanged and is found on p D-20.
Table D-10	D-24	Deletion	Deleted an unnecessary table, the page is intentionally left blank.
	D-25	Revision	Revised Section from 2 to 1.
		Addition	Inserted parameter c.
		Revision	Revised Section from 3 to 2 in Basis.
	D-26	Revision	Revised Section from 3 to 2.
		Revision	Revised period to a colon.
		Revision	Revised "c" to "s" in the Range column.
Table D-12	D-30	Revision	The data from p D-30 is unchanged and is found on p D-31.
Table D-13	D-32	Addition	Inserted parentheses around B ₁ .
Table D-16	D-38	Revision	Revised "Direction" to "Angle" in table heading.

Appendix E

Section E.1.2	E-1	Addition	Inserted "Introduction to" in Section heading E.4.
		Deletion	Deleted by CECe in Section heading E.4.4.
		Deletion	Deleted "e" in Measurements in Section heading E.5.
	E-4	Deletion	Deleted CECe in Table heading E-6.
	E-1	Revision	Revised the Chapters 1 through 8 to 8.
	E-3	Revision	The bold text was added and the barred text was deleted.
			The use of historical average atmospheric conditions for assessment of radiation doses due to airborne effluents is stipulated in the Basee Section 12.4 of each station's RETS as follows.
		Deletion	The stations' Technical Specifications references were deleted.
		Revision	The bold text was added and the barred text was deleted.
			This requirement is contained in the Braidwood, Byron, and Zion Stations' RETS following sections of the Technical Specifications.
Section E.3.1		Deletion	The stations' Technical Specifications references were deleted.
	E-4	Addition	Deleted CECe inserted The stations.
Section E.3.2	E-5	Deletion	Inserted comma following upper Mississippi River basin.
Section E.3.3	E-6	Revision	Deleted CECe three times.
		Deletion	The text from p E-6 is unchanged and is found on p E-5.
		Revision	Deleted CECe.
	E-7	Revision	Revised "plant" to "stations".
Section E.4		Deletion	Revised "this" to "these".
	E-8	Deletion	Deleted CECe three times.
	E-8	Addition	Deleted CECe.
	E-9	Revision	Inserted "Introduction to" in the Section heading E-4.
Section E.4.1		Deletion	Revised "see" to "compare".
		Addition	Deleted of inhalation dose commitment.
	E-10	Addition	Inserted with Equation A-17 of Appendix A.
	E-11	Deletion	Inserted $\bar{X} = (1/3.962E-5 \text{ cm}^{-1})(1 \text{ ft}/30.48 \text{ cm}) = 823.9 \text{ ft}$.
Section E.4.3		Revision	Deleted CECe from the Section heading E.4.4.
		Deletion	Revised "consideration" to "concern".
		Deletion	Deleted by CECe.
	E-12	Revision	Deleted CECe.
Section E.4.4			Revised LaSalle Table 4.11.2-1 and Zion Table 4.12-1 to 12.4 for both stations.

Appendix E Cont'd

Section E.7	E-12	Deletion	Deleted CECe.
Section E.8	E-13	Deletion	* *
		Revision	Revised "Technical Services Nuclear Services" to "NSEP".
Section E.9.2	E-14	Deletion	Deleted CECe.
Section E.9.3	E-14	Deletion	* *
Section E.9.4	E-15	Deletion	* *
Section E.9.5	E-16	Revision	Revised "in radians" to "at downwind distance x" in the second bullet of Equation E-5.
Section E.9.6.1	E-17	Deletion	Deleted CECe.
Section E.9.9	E-22	Deletion	Delete extra period following Section 4.1.4.
Section E.9.15	E-25	Addition	Inserted "j" after DFG.
Section E.9.17	E-26	Deletion	Deleted CECe.
	E-27	Deletion	* *
Section E.10.1	E-28	Deletion	Deleted CECe.
		Addition	The bold text was inserted and the barred text was deleted. For drinking water, withdrawn of Byron, Dresden, LaSalle and Quad Cities Stations, this model assumes complete mixing of stations' discharge with river water before withdrawal as potable water. This is based on the existence of one or more dams between the station liquid discharge and the water supply intake point. For drinking water withdrawn downstream of Braidwood Station, this model assumes partial mixing of the Station's discharge with river water before withdrawal as potable water. (See Table E-6 of this Appendix). For fish, the river model assumes complete mixing in the a near-field river flow (F). that may be less than the full flow of the river. This allows for the possibility of incomplete mixing near the plant. The value of the near field flow is based on judgement.
	E-29	Revision	Revise for a "maximum" to the "maximally" exposed individual.
Section E.11.1	E-29	Deletion	Deleted CECe.
Section E.11.2	E-31	Deletion	Deleted CECe five times.
		Revision	Revised Bases Section "3/4.11.4" to "12.4" for Braidwood/Byron and to "12.4" for LaSalle.
	E-32	Deletion	Deleted CECe.

Appendix E Cont'd

Table E-2	E-34	Revision Deletion	Revised "Peoria, 121 river miles" to "Wilmington, 4 river miles". Deleted Illinois R. as a receiving body of water for Braidwood. Deleted inferences to recreation and irrigation activities. Deleted the Note about the Kankakee R.
Table E-2, Note b	E-35	Revision	Revised reference footnote with updated study.
Table E-2, Note k		Revision	Revised reference footnote with updated correspondence.
Table E-3	E-36	Revision	Revised Braidwood dose values to reflect current study.
Table E-3, Note a		Revision	The bold text was inserted and the barred text was deleted. Per Braidwood ER, Table 5.2-7, and Reference 81. Except for drinking potable water and fish (See Footnote d), these values are based on water in the discharge canal. For potable water, the point of consumption is Wilmington, IL. For fish, it is assumed that they are caught in the Kankakee River.
Table E-3, Note d	E-37	Deletion	Footnote d was deleted. Footnote e was revised to "d".
Table E-6	E-41	Deletion Revision Revision	Deleted CECs in table heading E-6. Revised "Peoria, 121 river miles" to "Wilmington, 4". The sentence regarding Kankakee River flow into the Illinois was relocated to the second bullet.

CHANGES TO THE OFFSITE DOSE CALCULATION MANUAL (con't)

SITE SPECIFIC ANNEX CHANGES

Braidwood Station (Chapters 10, 12 and Appendix F)

Chapter 10 - Section 10.1.3 p 10-4	Clarified the original sentence by inserting " The cpm to uCi/cc conversion is accomplished..."
	Other minor editorial changes
Chapter 11 -	This Chapter was distributed in December, 1990, as Revision 0.8
Chapter 12 -	New RETS insert
Appendix F -	Minor editorial changes

Braidwood
Chapter 10

	10-i	Addition	The new indices designations are identified on page 10-i.
Table of Contents	10-ii	Revision	The Table of Contents are carried over from p 10-i to p 10-ii.
List of Figures	10-iii	Revision	The List of Figures are carried over from p 10-ii to p 10-iii.
Section 10.1.2	10-2	Revision	Revised the subscript "1" to "7" on Equation 10-2.
		Addition	Inserted brackets before parenthesis in Equation 10-2.
Section 10.1.2	10-3	Revision	Revised Table 4.3-9 to 12.2-4.
		Revision	Revised Technical Specifications to RETS.
		Revision	Revised Section 1.0 to 12.1.
Section 10.1.3	10-4	Deletion	Deleted comma following RM-80.
		Addition	Inserted The cpm to uCi/cc conversion is accomplished by the use of conversion factors in the radiation monitoring system software.
		Deletion	Deleted comma following RM-80.
Section 10.1.4	10-5	Deletion	* * * *
Section 10.1.5	10-6	Deletion	* * * *
Section 10.2.7	10-13	Revision	Revised Technical Specification to RETS.

Chapter 12
New Insert

Appendix F

	F-i	Addition	The new indices designations are identified on page F-i.
Table of Contents	F-ii	Revision	The Table of Contents are carried over from p F-i to p F-ii.
List of Tables	F-iii	Revision	The List of Tables are carried over from p F-ii to p F-iii.
List of Figures	F-iv	Revision	The List of Figures are carried over from p F-iii to p F-iv.
Table F-3	F-4	Revision	Revised "calibrating" to "calculating" in Footnote a.
Table F-3, Note c		Addition	Inserted "a" in Tele-dyne isotopes.
Table F-5	F-6	Revision	Revised "X" to the Greek letter, chi, in X/Q in the table heading and Note b.
		Addition	Inserted "a" following Section in the note.