

July 30, 1985

DOCKETED
USNRCUNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

'85 AUG 13 P3:23

BEFORE THE ATOMIC SAFETY AND
LICENSING BOARDOFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCHIn the Matter of:
Commonwealth Edison Company(Braidwood Nuclear Power
Station, Units 1 and 2)Docket Nos. 50-456 OL
50-457 OLApplicant's First Partial Response to
Rorem's First Set of Quality Assurance
Interrogatories and Requests to Produce

On July 2, 1985, Intervenors Rorem, et al., ("Intervenors") filed their First Set of Quality Assurance Interrogatories and Requests to Produce. On July 30, 1985, Commonwealth Edison Company ("Applicant") filed objections to certain of those discovery requests. This submission is Applicant's first partial response to Intervenors' discovery requests. Investigation continues for responses to all of the requests to which Applicant has not objected.

Each document identified in Applicant's response or incorporated by reference into Applicant's response has been identified with a number. In addition, Applicant has provided indices for these documents organized by interrogatory number, which identify for each numbered document the date, author, recipient, and type of document. The indices will be updated with each partial response submitted by Applicant.

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Documents which are incorporated by reference to answer interrogatories are being provided to all parties. Documents which are simply identified in answers to interrogatories, but not incorporated by reference, are available for inspection and copying. Documents for which Applicant is asserting privilege have not been provided, and an indication can be found on the indices as to whether the attorney client ("AC") or attorney work product ("WP") privilege is being asserted.

With regard to requests for addresses and telephone numbers of individuals employed by Commonwealth Edison or its contractors, onsite personnel can be located by contacting Braidwood Nuclear Power Station, Braceville, Illinois 60407 (phone 815-458-2801). Other Commonwealth Edison personnel can be located by contacting 72 W. Adams St., P.O. Box 767, Chicago, Illinois 60690 (phone 312-294-4321). Applicant is making a further review of individuals identified in response to specific interrogatories and will supplement its answers to the extent that such individuals now have other addresses or telephone numbers.

SPECIFIC INTERROGATORY 9

Please identify each deficiency in design and construction as defined in 10 CFR Section 50.55(e) and for each indicate the classification of its significance (i.e., classified under which subsections, 50.55(e) (i) (i-iv); the 10 CFR Part 50 Appendix A, General Design Criteria to which each relates and the respects in which it reflects noncompliance, the report number, and date, if any; the names, titles, addresses, and telephone numbers of each person responsible for the deficiency, its discovery, its reporting, and its corrective action; a detailed description of the deficiency and its safety implications, a detailed description of its correction action.

RESPONSE

The NRC identified certain deficiencies referenced in the Contentions in Inspection Report(s) 82-05, 83-09, and 84-17. Applicant classified these same deficiencies as reportable under 10 C.F.R. 50.55(e). Section 50.55(e) Reports 82-07, 83-07, and 84-10 which Applicant is providing in response to the Interrogatory set forth most of the information requested. Applicant is unable to relate the deficiencies reported to the General Design Criteria of 10 C.F.R. Part 50, Appendix A since these deficiencies were not design deficiencies. Applicant does not use a system of classification of reportable deficiencies which corresponds one to one with the subcategories of 50.55(e) (1). Applicant reported 50.55(e) Report No. 82-07 in response to a specific item of noncompliance in NRC Inspection Report No. 82-05 without specifically classifying the deficiency under 50-55(e)(1). In the case of 50.55(e) Report No. 83-07, Applicant reported the deficiency only as potentially reportable under 50.55(e) and has to date made no significance determination. For 50.55(e) Report No. 84-10, the deficiency falls under subcategory (iii). In addition, Applicant is unable to identify any specific individuals who were responsible for the specified deficiencies.

SPECIFIC INTERROGATORY 12

Describe in detail each review of the Braidwood Quality Assurance Program by the NRC Staff. For each, please indicate the deficiencies found, the adjustments, modifications and improvements resulting or otherwise made; the Commonwealth Edison position and response; the names, titles, addresses and telephone numbers of each person involved and a description of the involvement of each.

RESPONSE

The Preliminary Safety Analysis Report ("PSAR"), the Final Safety Analysis Report ("FSAR"), and the Safety Evaluation Report ("SER") define the Braidwood Quality Assurance Program as the Commonwealth Edison Company Topical Report. Revision 0 of the Topical Report and the current Revision are provided. In addition, Applicant has provided the applicable portions of licensing documents and the NRC reviews of and Commonwealth Edison's revisions to the Topical Report. These documents describe the reviews of the Braidwood Quality Assurance Program by the NRC and indicate any resulting deficiency findings, adjustments, modifications, or improvements, as well as Commonwealth Edison's position and responses. Commonwealth Edison personnel involved in the drafting and revision of these documents are identified in the correspondence by either name and/or title.

SPECIFIC INTERROGATORY 13

Please describe in detail the selection, training, testing and evaluation program for Quality Assurance personnel and Quality Control Inspectors for Edison and for each contractor responsible for any safety related construction at Braidwood from the commencement of construction until the present.

RESPONSE

Section 4 of Intervenor's QA contention refers to the training for Comstock weld inspectors and G.K. Newberg QC inspectors. Applicant is providing copies of the training programs for Comstock weld inspectors and Newberg QC inspectors at Braidwood from the start of construction to the present.

In light of the joint stipulation admitting section 2.c of the QA contention, Applicant will provide a response concerning the training, testing, and evaluation programs for the Comstock QC inspectors at a later date.

SPECIFIC INTERROGATORY 18

With respect to each NRC Staff inspection report regarding quality assurance at Braidwood, please identify, and make available for inspection and copying, all correspondence by and between the NRC Staff and Commonwealth Edison or its contractors regarding such inspection and any corrective action.

RESPONSE

Correspondence between the NRC Staff and Applicant or between the NRC Staff and Applicant's contractors relating to Staff inspection reports is identified in the index for specific interrogatory number 18. These documents are available for inspection and copying.

SPECIFIC INTERROGATORY 25

Subsequent to these NRC findings, did Pullman institute a stop work order involving HVAC work? If so, please describe in detail and explain why this problem occurred. Describe in detail any corrective action taken. Please identify any documents which reflect these answers.

RESPONSE

Pullman instituted a stop work order involving HVAC work in 1983 when the NRC Staff's concerns which were later set forth in Inspection Report 83-09 were made known to employees of Applicant and Pullman as reflected in NRC Inspection Report 83-09 (page A0001501). This stop work order was issued for all safety related HVAC welding on August 3, 1983. The specific issues are described in Inspection Report findings 83-09-10 (A)-(C). (See esp. pages A0001500-A0001501). Applicant's explanations concerning and responses to the NRC's findings can be found in its correspondence with the NRC concerning Inspection Report 83-09. (See pages A0001529-A0001536, A0001573-A0001574, A0001579-A0001581, A0001654-A0001659, A0001662-A0001666).

Actions which were taken to resolve the concerns which led to the stop work are described in the memoranda which are included at pages M0000250-M0000281.

These documents also reflect the conditions under which the stop work order was lifted. The approval of Revision 4 to Installation Procedure B9.4.F included the adoption of the weld process sheet which was crucial to the lifting of the stop work order. (See pages M0000035-M0000051). Further information on the Installation Procedure and the weld process sheet is provided in response to specific interrogatory number 39.

SPECIFIC INTERROGATORY 29

Subsequent to these NRC findings, did Pullman fail to institute corrective action to establish compliance with AWS D1.1 inspection requirements? If so, please describe in detail the circumstances and explain why this problem occurred and corrective action taken. Please identify any documents which reflect these answers.

RESPONSE

Applicant believes that this question relates to item 12.B.3 of the QA contention. This item of the contention is drawn from Inspection Report finding 83-09-07(B) found at page number A0001505 of the documents being provided. Item of noncompliance 1.c. of Inspection Report 83-09 (page number A0001444) corresponds to this issue and concerns the corrective action for Pullman Nonconformance Report BR-08. The NRC did not find that Pullman failed to institute corrective action for NCR BR-08, but rather identified a concern relative to the adequacy of the corrective action. As asserted in its response to noncompliance 1.c., Applicant believes the corrective action for NCR BR-08 was adequate. (See pages A0001516-A0001517, A0001658, A0001665-A0001666).

SPECIFIC INTERROGATORY 39

What traveler package control system for identifying welding procedures and material consumed for HVAC components has been implemented at Braidwood? Is such a system an industry-wide standard practice? Has the NRC ever identified any deficiencies in the Braidwood HVAC program with regard to such a system? If so, please describe in detail. Please identify any documents which reflect such a system, such deficiencies any any response or corrective action.

RESPONSE

Pullman Sheet Metal has a system for identifying welding procedures and materials for HVAC welding. This system is embodied in a Process Sheet which is identified in Installation Procedure B9.4.F. (See pages - M0000001 - M0000249). The Process Sheet, which travels from the weld engineer to Quality Assurance, is logged and stamped "Controlled." Then the Process Sheet goes to the production field personnel. QC inspection is performed as appropriate and documented on the applicable inspection form. The Process Sheet is forwarded to QC for inclusion in the applicable inspection record package. Applicant understands the Process Sheet to fall within the ordinary meaning of the term "traveler package control system."

Applicant knows that similar traveler package control systems for identifying welding procedures and material consumed for HVAC components have been in use at other nuclear plants it has constructed. Applicant does not know specifically how the Process Sheet system compares to other traveler systems in use in the industry at facilities which it does not own.

Section 3.A. of the QA contention makes reference to an item of noncompliance documented by the NRC relating not to the traveler system, but rather to the adequacy of instructions on weld "travelers". Applicant interprets Intervenor's question as relating to this finding. The NRC's concern is documented in Inspection Report finding 83-09-10(A) (page A0001500) and is classified as noncompliance 3.a in the accompanying Notice of Violation. (pages A0001446-A0001447). Documents which reflect the Process Sheet system, the NRC's findings, and Applicant's response or corrective action are identified in the enclosed index of documents responsive to interrogatory 39.

SPECIFIC INTERROGATORY 47

Has the NRC ever found that in the area of HVAC the lack of specific weld procedures to be used by craft has allowed craft to select the procedure and technique to be used, resulting in HVAC welding activities of indeterminate quality? If so, please describe in detail the circumstances and explain why these problems occurred and what corrective action has been taken. Set forth any facts which demonstrate that such corrective action has been effective. Please identify any documents which reflect these answers.

RESPONSE

The answer to the initial question contained in this interrogatory is no. However, Applicant believes that this Interrogatory seeks information concerning Inspection Report finding 83-09-10(A). (See page number A0001500). In that finding the NRC did not find a lack of specific weld procedures in the area of HVAC, but rather found that, while there were weld procedures, the instructions on "travelers" or other such documentation did not identify for the craftsmen which weld procedure to use for a specific installation. The result was that the craftsmen selected the weld procedure to be used for a specific installation. An explanation of the NRC's findings can be found in Inspection Report 83-09. A detailed description of Applicant's position on this issue and corrective actions taken can be found in the response to 83-09, Item 3.a. (See page numbers A0001447, A0001500, A0001529-A0001532, A00001579-A0001580, A0001659).

The findings of Commonwealth Edison's QA surveillance 3180 demonstrate the effectiveness of Applicant's corrective action. (See pages B0000660-B0000661). The manner in which the stop work order referenced in answer to interrogatory 25 was released gives additional confidence that the corrective actions were effective. Work activities were resumed in stages and were initially subject to a 100% surveillance by Pullman QC Inspectors. (See pages M0000250-M0000281, A0001532-A0001533 for a full description of this matter). In addition, the overall integrity of HVAC welding activities was demonstrated by an investigation of weld filler metal which showed in all instances that the proper weld filler metal had been used (see pages A0001579-A0001580) and a program is underway to test a number of randomly selected items which will be cut from the HVAC installations.

SPECIFIC INTERROGATORY 48

Has the NRC ever found that a lack of Quality Control inspections required by AWS D1.1 prior to and during HVAC welding operations has resulted in HVAC structural welding of indeterminate quality? If so, please describe the circumstances in detail and explain why these problems occurred and what corrective action has been taken. Set forth any facts which demonstrate that such corrective action has been effective. Please identify any documents which reflect these answers.

RESPONSE

In Inspection Report 83-09, Items of Noncompliance 3.b and 3.c, the NRC found a lack of records documenting conformance with the requirements of AWS D1.1-1977. The NRC did not make a finding of indeterminate quality. (See page number A0001447 and A0001500-A0001501). Applicant's position on this issue, as well as corrective action taken, are identified in its response to Inspection Report 83-09 at pages A0001533-A0001536, A0001574, A0001581, A0001654-A0001661, A0001662-A0001664. Corrective action is effective because the applicable welding procedure has been revised to incorporate the specific AWS D1.1 attributes referred to in the Inspection Report.

The findings of Commonwealth Edison's QA surveillance 3180 demonstrate the effectiveness of Applicant's corrective action. (See pages B0000660-B0000661). The manner in which the stop work order referenced in answer to interrogatory 25 was released gives additional confidence that the corrective actions were effective. Work activities were resumed in stages and were initially subject to a 100% surveillance by Pullman QC inspectors (see pages M0000250-M0000281, A0001532-A0001533 for a full description of this matter). In addition, the overall integrity of HVAC welding activities was demonstrated by an investigation of weld filler metal which showed in all instances that the proper weld filler metal had been used (see pages A0001579-A0001580) and a program is underway to test a number of randomly selected items which will be cut from the HVAC installations.

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #9

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A0003569-3570		Licensing	06/26/85	Letter	Keppler	Swartz
A0003571-3575		Licensing	06/07/85	Letter	Reed	Norelius
A0003576-		Licensing	06/21/85	Letter	Wallace	Gallup
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A0003617-3618		Licensing	11/02/84	Letter	keppler	Smith
A0003619-3620		Licensing	12/12/84	Letter	Keppler	Smith
A0003621-3622		Licensing	02/27/85	Letter	Keppler	Smith
A0003623-3624		Licensing	05/02/85	Letter	Keppler	Smith

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0047
I0000048-
0094

GO QA

06/01/79

Audit Report

I0000095-
180

Not responsive

I0000181-
213

GO QA

06/30/83

Audit Report

Wallace, Marcus
Shelton,
Sommerfield

I0000214-
575

GO QA

10/17/83

Audit Report

Wallace Marcus

B0000000-
0006

CECo Site QA

07/11/80

Audit Report

B0000007-
0032

CECo Site QA

06/25/81

Audit Report

B0000033-
0044

CECo Site QA

07/11/80

Audit Report

B0000045-
0052

CECo Site QA

06/25/79

Audit Report

B0000053-
0099

CECo Site QA

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Audit Report

B0000100-
0138

CECo Site QA

12/27/83

Audit Report

B0000139-
0174

CECo Site QA

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B0000175-
0225

CECo Site QA

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B0000233- 0252	CECo Site QA	07/06/82	Audit Report
B0000253- 0289	CECo Site QA	04/30/82	Audit Report
B0000290- 0327	CECo Site QA	10/05/81	Audit Report
B0000328- 0385	CECo Site QA	04/30/84	Audit Report
B0000386- 0422	CECo Site QA	03/14/84	Audit Report
B0000423- 0447	CECo Site QA	01/30/85	Audit Report
B0000448- 0457	CECo Site QA	12/19/83	Audit Report
B0000458- 0483	CECo Site QA	03/23/83	Audit Report
B0000484- 0551	CECo Site QA	02/10/84	Audit Report
B0000552- 0597	CECo Site QA	07/03/84	Audit Report
B0000598- 0659	CECo Site QA	10/22/84	Audit Report

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Responsive to Specific Interrogatory #12

#12

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Date

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Type of Doc

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ToFrom

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Licensing

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4016

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A0004017-
4023

Licensing 11/17/78

Letter

Haass

Turbak

A0004024-
4040

Licensing 02/25/79

Letter

Haass

Naughton

A0004041-
4085

Licensing 06/21/79

Letter

Haass

Janacek

A0004086- 4168	Licensing	07/16/79	Letters	Haass	Janacek
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Q0000082- 96		Newberg QA/QC	08/29/84	QC Proce- dure		
Q0000097- 116		Newberg QA/QC		QC Proce- dure		
Q0000117- 133		Newberg QA/QC	01/04/85	QC Proce- dure		

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00000032-0050		Comstock QA/QC	04/09/80	QC Procedure Tracking Sheet		
00000051-0068		Comstock QA/QC	09/23/80	QC Procedure Tracking Sheet		
00000069-0087		Comstock QA/QC	04/24/81	QC Procedure Tracking Sheet		
00000088-0103		Comstock QA/QC	10/29/82	QC Procedure Tracking Sheet		
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00000136-0175		Comstock QA/QC		QC Procedure Tracking Sheet		
00000175-0202		Comstock QA/QC	07/11/84	QC Procedure Tracking Sheet		
00000253-0344		Comstock QA/QC	04/08/85	QC Procedure Tracking Sheet		

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A0000558-60		Licensing	02/15/80	Letter	Keppler	Peoples
A0000561		Licensing	03/04/80	Letter	Reed	Fiorelli
A0000562-63		Licensing	03/08/80	Letter	Keppler	Peoples
A0000564		Licensing	01/26/81	Letter	Keppler	Abel
A0000565		Licensing	02/12/81	Letter	Reed	Fiorelli
A0000566-72		Licensing	02/29/80	Letter w/IR	Reed	Fiorelli
A0000573-75		Licensing	03/31/80	Letter	Keppler	Peoples
A0000576		Licensing	06/17/80	Letter	Keppler	Peoples
A0000577-82		Licensing	04/24/80	Letter w/IR	Lee	Keppler
A0000583-90		Licensing	05/06/80	Letter w/IR	Reed	Fiorelli
A0000591-602		Licensing	06/10/80	Letter w/IR	Reed	Fiorelli

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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0000603-607		Licensing	07/11/80	Letter	Keppler	Peoples
A0000608		Licensing	07/30/80	Letter	Reed	Fiorelli
A0000609		Licensing	10/15/80	Letter	Keppler	Abel
A0000610		Licensing	12/11/80	Letter	Keppler	Abel
A0000611		Licensing	03/04/81	Letter	Keppler	Abel
A0000612-613		Licensing	03/26/81	Letter	Keppler	Abel
A0000614-15		Licensing	08/14/81	Letter	Reed	Norelius
A0000616-18		Licensing	12/22/81	Letter	Keppler	Del George
A0000619		Licensing	01/19/82	Letter	Reed	Norelius
A0000620-28		Licensing	06/05/80	Letter w/IR	Reed	Fiorelli
A0000628-32		Licensing	07/09/80	Letter	Keppler	Peoples
A0000633-39		Licensing	07/28/80	Letter w/IR	Reed	Fiorelli
A0000640-50		Licensing	08/15/80	Letter w/IR	Reed	Fiorelli
A0000651-52		Licensing	08/22/80	Letter	Keppler	Reed
A0000653-61		Licensing	08/28/80	Letter w/IR	Reed	Fiorelli
A0000662-65		Licensing	10/01/80	Letter	Keppler	Abel
A0000666-75		Licensing	10/09/80	Letter w/IR	Reed	Davis
A0000676-78		Licensing	10/31/80	Letter	Keppler	Abel
A0000679-84		Licensing	02/17/81	Letter	Keppler	Abel
A0000685		Licensing	10/02/80	Letter w/IR	Reed	Fiorelli
A0000690-91		Licensing	11/06/80	Letter	Keppler	Abel
A0000692-98		Licensing	10/03/80	Letter w/IR	Reed	Fiorelli
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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0000699-712		Licensing	10/23/80	Letter w/IR	Reed	Fiorelli
A0000713-717		Licensing	12/04/80	Letter	Keppler	Abel
A0000718-23		Licensing	11/13/80	Letter w/IR	Reed	Fiorelli
A0000724-41		Licensing		Letter w/IR	Reed	Keppler
A0000742-748		Licensing	02/05/81	Letter w/IR	Reed	Fiorelli
A0000749-754		Licensing	02/10/81	Letter w/IR	Reed	Fiorelli
A0000755-59		Licensing	03/26/81	Letter w/IR	Reed	Norelius
A0000760-769		Licensing	05/01/81	Letter w/IR	Reed	Norelius
A0000770-778		Licensing	05/29/81	Letter w/IR	Reed	Norelius
A0000779-784		Licensing	05/08/81	Letter w/IR	Reed	Heishman
A0000785-791		Licensing	06/30/81	Letter w/IR	Reed	Norelius
A0000792-797		Licensing	07/20/81	Letter w/IR	Reed	Heishman
A0000798-805		Licensing	08/04/81	Letter w/IR	Reed	Norelius
A0000806		Licensing	04/05/82	Letter	Keppler	Del George
A0000807		Licensing	02/23/82	Letter	Keppler	Del George
A0000808		Licensing	01/11/82	Letter	Keppler	Del George
A0000809-811		Licensing	11/10/81	Letter	Keppler	Del George
A0000812-819		Licensing	10/14/81	Letter w/IR	Reed	Norelius
A0000820-825		Licensing	10/05/81	Letter w/IR	Reed	Norelius
A0000826-833		Licensing	10/08/81	Letter w/IR	Reed	Norelius
A0000834		Licensing	12/08/81	Letter w/IR	Reed	Spessard
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Bates Stamp No.	Privileged . AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0000841-857		Licensing	01/05/82	Letter	Reed	Norelius
A0000858-864		Licensing	02/04/82	Letter	Keppler	Del George
A0000865		Licensing	03/14/82	Letter	Reed	Norelius
A0000866-869		Licensing	03/17/82	Letter	Keppler	Del George
A0000870		Licensing	03/26/82	Letter	Reed	Norelius
A0000871-882		Licensing	04/06/82	Letter	Keppler	Del George
A0000883		Licensing	12/13/82	Letter	Keppler	Tramm
A0000884		Licensing	12/29/82	Letter	Reed	Norelius
A0000885		Licensing	03/08/83	Letter	Keppler	Swartz
A0000886		Licensing	08/18/82	Letter	Keppler	Tramm
A0000887-902		Licensing	07/07/82	Letter w/IR	Reed	Norelius
A0000903-911		Licensing	08/17/82	Letter	Keppler	Del George
A0000912-913		Licensing	09/27/82	Letter	Reed	Norelius
A0000914-28		Licensing	12/29/82	Letter w/IR	Reed	Keppler
A0000929-92		Licensing	07/16/82	Letter w/IR	Reed	Norelius
A0000992-98		Licensing	08/17/82	Letter	Keppler	Del George
A0000999-1004		Licensing	08/18/82	Letter w/IR	Reed	Spessard
A0001005-18		Licensing	02/02/83	Letter w/IR	O'Connor	Keppler
A0001019-20		Licensing	08/08/83	Letter	Stiede	Spessard
A0001021-60		Licensing	02/02/83	Letter	Keppler	O'Connor
A0001061		Licensing	02/18/83	Letter	Keppler	Reed
A0001062		Licensing	02/25/83	Letter	Reed	Norelius
A0001063-84		Licensing	04/04/83	Letter	Keppler	Reed
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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0001085-86		Licensing	09/01/82	Letter	Keppler	Stiede
A0001087-93		Licensing	10/08/82	Letter	Keppler	Tramm
A0001094		Licensing	04/26/83	Letter	Reed	Norelius
A0001095-1106		Licensing	06/27/83	Letter	O'Connor	DeYoung
A0001107		Licensing	07/27/83	Letter	DeYoung	O'Connor
A0001108		Licensing	08/03/83	Letter	O'Connor	Axelrad
A0001109-10		Licensing	04/07/85	Letter	Keppler	Farrar
A0001111-26		Licensing	12/10/82	Letter w/IR	Reed	Norelius
A0001127-36		Licensing	01/14/82	Letter	Keppler	Del George
A0001137-39		Licensing	03/08/83	Letter	Reed	Spessard
A0001140-45		Licensing	04/31/83	Letter	Keppler	Farrar
A0001146-47		Licensing	05/23/83	Letter	Reed	Spessard
A0001148-60		Licensing	01/19/83	Letter w/IR	Reed	Knop
A0001161-67		Licensing	02/22/83	Letter	Keppler	Farrar
A0001168		Licensing	03/09/83	Letter	Reed	Norelius
A0001169-1184		Licensing	02/14/83	Letter w/IR	Reed	Norelius
A0001185-1193		Licensing	03/16/83	Letter	Keppler	Farrar
A0001194-1195		Licensing	04/25/83	Letter	Reed	Norelius
A0001196-1198		Licensing	05/24/83	Letter	Keppler	Farrar
A0001199-1204		Licensing	02/25/83	Letter w/IR	Reed	Davis
A0001205-1216		Licensing	03/23/83	Letter w/IR	Reed	Norelius
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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0001217-1223		Licensing	04/29/85	Letter	Keppler	Farrar
A0001224-1229		Licensing	07/08/83	Letter	Keppler	Farrar
A0001230-1233		Licensing	09/07/83	Letter	Keppler	Farrar
A0001234-1236		Licensing	11/14/83	Letter	Reed	Farrar
A0001237		Licensing	11/23/83	Letter	Reed	Norelius
A0001238-1244		Licensing	03/18/83	Letter w/IR	Reed	Paperiello
A0001245-1250		Licensing	03/16/83	Letter	Reed	Norelius
A0001251-1259		Licensing	05/04/83	Letter w/IR	Reed	Knop
A0001260-1383		Licensing	03/22/84	SALP Report	Reed	Keppler
A0001384-1399		Licensing	08/08/83	Letter w/IR	Reed	Knop
A0001400-1411		Licensing	09/09/83	Letter	Keppler	Farrar
A0001412-1413		Licensing	10/13/83	Letter	Reed	Norelius
A0001414-1425		Licensing	08/23/83	Letter w/IR	Reed	Knop
A0001426-1427		Licensing	08/29/83	Letter	Keppler	Swartz
A0001428-1431		Licensing	09/22/83	Letter	Keppler	Farrar
A0001432-		Licensing	09/29/83	Letter	Reed	Knop
A0001433-1434		Licesning	08/17/83	Letter	Keppler	Farrar
A0001435-1436		Licensing	08/23/83	Letter	Keppler	Farrar
A0001437		Licensing	09/14/83	Letter	Reed	Spessard
A0001438		Licensing	11/15/83	Letter	Keppler	Farrar
A0001439		Licensing	02/24/84	Letter	Reed	Norelius

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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0001440-1507		Licensing	05/07/84	Letter w/IR	O'Connor	Keppler
A0001508-1572		Licensing	07/06/84	Letter	Keppler	DelGeorge
A0001573-1574		Licensing	07/23/84	Letter	Keppler	Swartz
A0001575		Licensing	06/26/84	Letter	Reed	Spessard
A0001576		Licensing	08/27/84	Letter	Reed	Warnick
A0001577-1581		Licensing	08/27/84	Letter	Keppler	Swartz
A0001582-1652		Licensing	01/12/84	Letter	Davis	DelGeorge
A0001653		Licensing	02/20/85	Letter	Keppler	Smith
A0001654-1661		Licensing	03/11/85	Letter	Keppler	Smith
A0001662-1664		Licensing	03/27/85	Letter		
A0001665-1666			04/25/85	Letter	Keppler	Smith
A0001667-1675		Licensing	08/04/83	Letter w/IR	Reed	Little
A0001676-1690		Licensing	08/10/83	Letter w/IR	Reed	Little
A0001691-1695		Licensing	08/17/83	Letter	Reed	Norelius
A0001696-1709		Licensing	09/02/83	Letter w/IR	Reed	Little
A0001708-1710		Licensing	09/30/83	Letter	Keppler	Farrar
A0001711		Licensing	10/19/83	Letter	Reed	Little
A0001712-1717		Licensing	10/18/83	Letter	Reed	Norelius
A0001718-1724		Licensing	11/07/83	Letter	Reed	Norelius
A0001725-1731		Licensing	10/13/83	Letter w/IR	Reed	Knop
A0001732-1749		Licensing	02/03/84	Letter w/IR	Reed	Knop

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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0001750-1763		Licensing	04/09/84	Letter	Keppler	Farrar
A0001764-1765		Licensing	05/01/84	Letter	Keppler	Farrar
A0001766		Licensing	05/22/84	Letter	Reed	Warnick
A0001767-1784		Licensing	02/28/84	Letter	Keppler	Swartz
A0001785-1787		Licensing	06/11/84	Letter	Farrar	Youngblood
A0001788-1793		Licensing	07/06/84	Letter	Denton	Farrar
A0001794-1828		Licensing	01/27/84	Letter w/IR	Reed	Spessard
A0001829-1876		Licensing	03/23/84	Letter	Keppler	DelGeorge
A0001877-1879		Licensing	06/08/84	Letter	Reed	Spessard
A0001880-1883		Licensing	06/28/84	Letter	Keppler	Farrar
A0001884		Licensing	07/05/84	Letter	Reed	Spessard
A0001885		Licensing	08/13/84	Letter	Keppler	Farrar
A0001886		Licensing	10/01/84	Letter	Reed	Spessard
A0001887-1892		Licensing	12/23/83	Letter w/IR	Reed	Paperiello
A0001893-1907		Licensing	12/15/83	Letter w/IR	Reed	Sheeter
A0001908-1916		Licensing	02/16/84	Letter w/IR	Reed	Little
A0001917-1923		Licensing	04/19/84	Letter w/IR	Reed	Little
A0001924-1933		Licensing	03/16/84	Letter w/IR	Reed	Paperiell
A0001934-1943		Licensing	04/17/84	Letter w/IR	Reed	Little
A0001944-1980		Licensing	07/02/84	Letter w/IR	Reed	Warnick
A0001981-1993		Licensing	08/10/84	Letter	Keppler	Farrar

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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0001994-1995		Licensing	09/11/84	Letter	Keppler	Smith
A0001996-1998		Licensing	11/02/84	Letter	Keppler	Smith
A0001999-2006		Licensing	11/19/84	Letter	Keppler	Smith
A0002007-2009		Licensing	12/13/84	Letter	Reed	Warnick
A0002010-2014		Licensing	01/09/84	Letter	Keppler	Smith
A0002015-2019		Licensing	04/18/85	Letter	Keppler	Smith
A0002020-2035		Licensing	04/27/85	Letter w/IR	Reed	Warnick
A0002036-2048		Licensing	06/19/84	Letter	Keppler	Farrar
A0002049		Licensing	07/02/84	Letter	Reed	Warnick
A0002050-2052		Licensing	06/11/84	Letter	Farrar	Youngblood
A0002053-2058		Licensing	07/06/84	Letter	Denton	Farrar
A0002059-2073		Licensing	07/20/84	Letter w/IR	Reed	Walker
A0002074-2082		Licensing	08/20/84	Letter	Keppler	Farrar
A0002083-2084		Licensing	12/13/80	Letter	Keppler	Farrar
A0002085		Licensing	12/24/84	Letter	Reed	Little
A0002086-2103		Licensing	05/22/84	Letter w/IR	Reed	Warnick
A0002104-2109		Licensing	06/21/84	Letter	Keppler	Farrar
A0002110		Licensing	06/29/84	Letter	Reed	Warnick
A0002111		Licensing	08/16/84	Letter	Keppler	Farrar
A0002112		Licensing	09/12/84	Letter	Keppler	Farrar
A0002113-2114		Licensing	12/13/84	Letter	Keppler	Farrar
A0002115-2128		Licensing	07/02/84	Letter w/IR	Reed	Warnick
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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0002129-2134		Licensing	07/31/84	Letter	Keppler	Farrar
A0002135-2136		Licensing	08/15/84	Letter	Reed	Warnick
A0002137-2139		Licensing	10/22/84	Letter	Keppler	Farrar
A0002140		Licensing	11/07/84	Letter	Keppler	Farrar
A0002141		Licensing	11/30/84	Letter	Reed	Warnick
A0002142-2144		Licensing	02/13/85	Letter	Keppler	Farrar
A0002145-2151		Licensing	05/22/84	Letter w/IR	Reed	Paperiello
A0002152-2157		Licensing	07/18/84	Letter w/IR	Reed	Spessard
A0002158-93		Licensing	11/0/6/84	Letter w/IR	Reed	Norelius
A0002194-95		Licensing	12/26/84	Letter	Keppler	Reed
A0002196-207		Licensing	03/14/85	Letter SALP	Reed	Keppler
A0002208-50		Licensing	04/25/85	Letter	Keppler	Smith
A0002251-68		Licensing	08/07/84	Letter w/IR	Reed	Warnick
A0002269-73		Licensing	09/21/84	Letter	Keppler	Farrar
A0002274		Licensing	10/19/84	Form Letter		
A0002275-90		Licensing	07/18/84	Letter w/IR	Reed	Little
A0002291-97		Licensing	06/28/84	Letter w/IR	Reed	Walker
A0002298-302		Licensing	08/27/84	Letter w/IR	Reed	Walker
A0002303-25		Licensing	10/16/84	Letter w/IR	Reed	Warnick
A0002326-30		Licensing	11/28/84	Letter	Keppler	Farrar

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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0002331-40		Licensing	08/14/84	Letter w/IR	Reed	Spessard
A0002341-63		Licensing	11/07/84	Letter w/IR	Reed	Little
A0002364-84		Licensing	11/20/84	Letter w/IR	Reed	Warnick
A0002385-96		Licensing	01/31/85	Letter	Keppler	Farrar
A0002397-99		Licensing	02/27/85	Letter	Keppler	Farrar
A0002400-01		Licensing	04/16/85	Letter	Keppler	Farrar
A0002402-08		Licensing	08/29/84	Letter w/IR	Reed	Little
A0002409-42		Licensing	10/11/84	Letter w/IR	Reed	Little
A0002443-50		Licensing	09/06/84	Letter w/IR	Reed	Paperiello
A0002451-2532		Licensing	10/04/84	Letter w/IR	Reed	Warnick
A0002533-35		Licensing	10/29/84	Letter	Keppler	Farrar
A0002536-42		Licensing	09/04/84	Letter w/IR	Reed	Spessard
A0002543-50		Licensing	10/16/84	Letter w/IR	Reed	Norelius
A0002551-55		Licensing	11/28/84	Letter w/IR	Reed	Harrison
A0002556-71		Licensing	10/24/84	Letter w/IR	Reed	Little
A0002572-626		Licensing	10/30/84	Letter w/IR	Reed	Warnick
A0002627-40		Licensing	11/26/84	Letter w/IR	Reed	Warnick
A0002641-43		Licensing	12/21/84	Letter	Keppler	Farrar

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Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0002644-54		Licensing	12/10/84	Letter w/IR	Reed	Warnick
A0002655-61		Licensing	12/20/84	Letter w/IR	Reed	Warnick
A0002662-77		Licensing	12/31/84	Letter w/IR	Reed	Warnick
A0002678-83		Licensing	02/13/85	Letter	Keppler	Farrar
A0002684-89		Licensing	11/28/85	Letter w/IR	Reed	Harrison
A0002690-97		Licensing	01/10/85	Letter w/IR	Reed	Warnick
A0002698-99		Licensing	12/19/84	Progress Report	Keppler	Norelius
A0002700-53		Licensing	12/21/84	Letter	Keppler	Smith
A0002754-56		Licensing	12/17/84	Letter w/IR	Reed	Ayelson
A0002757-69		Licensing	03/15/85	Letter w/IR	Reed	Warnick
A0002770-77		Licensing	01/18/85	Letter w/IR	Reed	Harrison
A0002778-84		Licensing	02/26/85	Letter w/IR	Reed	Harrison
A0002785-803		Licensing	03/18/85	Letter w/IR	Reed	Warnick
A0002804-05		Licensing	03/26/85	Letter	Reed	Warnick
A0002806-11		Licensing	4/17/85	Letter	Reed	Warnick
A0002812-36		Licensing	03/15/85	Letter w/IR	Reed	Streeter
A0002837-66		Licensing	10/22/85	Letter	Keppler	DelGeorge
A0002867-976		Licensing	03/15/85	Letter w/NOV	Reed	Streeter
A0002977-79		Licensing	03/15/85	Letter w/NOV	Reed	Streeter
A0002980-83		Licensing	04/15/85	Letter	Keppler	Farrar
A0002984-3121		Licensing	2/20/85	Letter w/IR	Reed	Taylor
A0003122-26		Licensing	04/11/85	Letter w/NOV	Reed	Norelius
A0003127-44		Licensing	05/16/85	Letter	Keppler	Farrar
A0003145-		Licensing	05/29/85	Letter	Keppler	Farrar

A0003146- 52	Licensing	02/01/85	Letter w/IR	Reed	Paperiello
A0003153- 3202	Licensing	02/13/85	Letter w/IR	Reed	Warnick
A0003203- 3229	Licensing	02/19/85	Letter w/IR	Reed	Paperiello
A0003230- 40	Licensing	03/26/85	Letter w/IR	Reed	Warnick
A0003241- 49	Licensing	04/22/85	Letter w/IR	Reed	Harrison
A0003250- 75	Licensing	04/08/85	Letter w/IR	Reed	Warnick
A0003276- 89	Licensing	04/06/85	Letter	Keppler	Farrar
A0003290- 91	Licensing	06/27/85	Letter	Norelius	Reed
A0003292- 313	Licensing	04/04/85	Letter w/IR	Reed	Warnick
A0003314- 17	Licensing	05/03/85	Letter	Keppler	Farrar
A0003318	Licensing	06/06/85	Letter	Reed	Little
A0003319- 30	Licensing	04/18/85	Letter w/IR	Reed	Harrison

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0003331-35		Licensing	05/15/85	Letter	Kopple	Furber
A0003336-45		Licensing	03/12/85	Letter w/IR	Reed	Wagner
A0003346-54		Licensing	04/12/85	Letter w/IR	Reed	Wagner
A0003355-62		Licensing	04/11/85	Letter w/IR	Reed	Wagner
A0003361-67		Licensing	04/11/85	Letter w/IR	Reed	Furber
A0003370-81		Licensing	04/13/85	Letter w/IR	Reed	Wagner
A0003383-85		Licensing	03/29/85	Letter w/IR	Reed	Harrison
A0003384-407		Licensing	04/16/85	Letter w/IR	Reed	Wagner
A0003410-415		Licensing	06/2/85	Letter	Kopple	Furber
A0003411-24		Licensing	03/11/85	Letter w/IR	Reed	Harrison
A0003421-31		Licensing	01/10/85	Letter w/IR	Reed	Wagner
A0003457-97		Licensing	03/14/85	Letter w/IR	Reed	Wagner
A0003471-3507		Licensing	04/10/85	Letter w/IR	Reed	Wagner
A0003505-57		Licensing	04/11/85	Letter w/IR	Reed	Wagner
A0003531-67		Licensing	10/2/85	Letter	Kopple	Furber
0038H A0003551-66		Licensing	07/10/85	Letter	Kopple	Furber

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
Acc03567- 8		LICENSING	10/31/83	LETTER	KEPPLER	SMITH
Acc03569- 70		LICENSING	06/26/85	LETTER	KEPPLER	SMITH
Acc03571- 73		LICENSING	06/07/85	LETTER	Reed	Nichols
Acc03572		LICENSING	06/21/85	LETTER	Wallace	Smith
Acc03577- 78		LICENSING	07/03/85	LETTER	KEPPLER	SMITH
Acc03579- 612		LICENSING	07/03/85	LETTER	Wallace	Smith
Acc03613- 14		LICENSING	07/20/84	LETTER	KEPPLER	SMITH
Acc03615- 16		LICENSING	08/18/84	LETTER	KEPPLER	SMITH
Acc03617- 18		LICENSING	11/02/84	LETTER	KEPPLER	SMITH
Acc03619- 20		LICENSING	12/12/84	LETTER	KEPPLER	SMITH
Acc03621- 22		LICENSING	02/27/85	LETTER	KEPPLER	SMITH
Acc03623- 24		LICENSING	05/02/85	LETTER	KEPPLER	SMITH
Acc03623- 34		LICENSING	07/01/85	LETTER	Reed	SMITH
Acc03635- 3647		LICENSING	07/09/85	LETTER	Reed	SMITH

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #25

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0001440-1507		Licensing	05/7/84	Letter	O'Connor	Keppler
A0002984-3121		Licensing	2/20/85	Letter 09-10A	Reed	Taylor
A0005720-577		Licensing		Item 83 09-10A packet		
A0005778-5830		Licensing		Item 83 09-10B packet		
A0005831-5880		Licensing		Item 83 09-10C packet		
M0000035-0051		Pullman QA		Letter W/Rev 4		
A0001508-1572		Pullman	07/6/84	Letter		
A0001577-1581		Pullman	08/03/84	Letter		
A0001573-1574		Pullman	07/23/84	Letter		
A0001582-1652		Pullman	01/12/84	Letter		
A0001655-1666		Pullman	04/25/85	Letter		
A0001662-1664		Pullman	03/27/83	Letter		
A0001654-1661		Pullman	03/11/85	Letter		
M00000250		Pullman QA	08/03/83	Letter	Grant	Hawkinson
M00000251		Pullman QA	08/04/83	Letter	Lawler	Hawkinson
M00000252		Pullman QA	08/05/83	Letter	Casaro	Lawler
M00000253		Pullman QA	08/05/83	Letter	Lawler	Sommerfield
M00000254		Pullman QA	08/05/83	Letter	Lawler	Casaro
M00000255-0256		Pullman QA	08/17/83	Letter	Keppler	Farrar
M00000257		Pullman QA	09/13/83	Letter	Lawler	Sommerfield
M00000258		Pullman QA	09/02/83	Letter	Sommerfield	Hawkinson
M00000259		Pullman QA	10/14/83	Memo	Grant	Lawler

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #25

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
M00000260 0261		Pullman QA	10/17/83	Letter	Casaro	Grant
M00000262 0263		Pullman QA	10/24/83	Memo	Grant	Lawler
M00000264		Pullman QA	11/04/83	Letter	Lawler	Sommerfield Casaro
M00000265- 0266		Pullman QA	11/04/83	MEMO	Grant	Lawler
M00000267		Pullman QA	11/08/83	Letter	Sommerfield	Hawkinson
M00000268		Pullman QA	11/09/83	Letter	Sommerfield	Hawkinson
M00000269- 0271		Pullman QA	11/15/83	Letter	Shewski	Hawkinson
M00000272		Pullman QA	11/17/83	Letter	Casaro	Brown
M00000273		Pullman QA	11/21/83	Letter	Lawler	Hawkinson
M00000274 0275		Pullman QA	11/23/83	Memo	Grant	Lawler
M00000276		Pullman QA	12/06/83	Letter	Casaro	Lawler
M00000277		Pullman QA	1/21/84	Letter	Lawler	Brown
M00000278		Pullman QA	1/23/84	Letter	Casaro	Brown
M00000279		Pullman QA	4/3/84	Letter	Lawler	Casaro
M00000280		Pullman QA	1/1/84	Letter	Lawler	Casaro
M00000281		Pullman QA	5/15/84	Letter	Lawler	Shamblin

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #29

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0001440-1507		Licensing	5/7/84	Letter w/IR	O'Connor	Keppler
A0001508-1572		Licensing	7/6/84	Letter		
A0001577-1581		Licensing	8/3/84	Letter		
A0001573-1574		Licensing	7/23/84	Letter		
A0001582-1652		Licensing	1/12/84	Letter		
A0001665-1666		Licensing	4/25/85	Letter		
A0001662-1664		Licensing	3/27/83	Letter		
A0001654-1661		Licensing	3/11/85	Letter		
C0000040-42		CECo-Const. (Brylka)	6/15/84	QA Surveillance report/hand-written comments		
C0000038		CECo Const. (Craft)	3/25/83	Memo w/ Hand-written comments	PSM Welder & Foreman	
N00000000-		Pullman Engineering	Various 1983	Hand-written notes		Weiher
N0000007-0011		Pullman Engineering	undated	Hand-written notes		Weiher
N0000012-0014		Pullman Engineering	undated	Hand-written notes		Weiher
N0000015-0023		Pullman	2/19/85	Draft Letter		Weiher
N0000024-0027		Pullman Engineering	11/1/84	Hand-written notes		Weiher
C0000000-0011		CECO Const. (Garling/Brylka)	11/7/83	Memo	Various	Tapella
C0000019		CECO Const.	undated	Draft response		Craft

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #39

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0005720-5777		Licensing		Item 83-09 10A packet		
A0005778-5830		Licensing		Item 83-09 10B packet		
A005831-5880		Licensing		Item 83-09 10C packet		
A0001440-1507		Licensing	5/7/84	Letter		
A0001508-1572		Licensing	7/6/84	Letter		
A0001577-1581		Licensing	8/3/84	Letter		
A0001573-74		Licensing	7/23/84	Letter		
A0001582-1652		Licensing	1/12/84	Letter		
A0001665-1666		Licensing	4/25/85	Letter		
A0001662-1664		Licensing	3/27/83	Letter		
A0001654-1661		Licensing	3/11/85	Letter		
M00000001		Pullman QA		Index of Revs to B.9.4.F		
M00000002-6		Pullman QA		Letters w/rev. 0		
M00000007-15		Pullman QA		Letters w/rev. 1		
M000000016-22		Pullman QA		Letters w/rev. 2		
M000000023-34		Pullman QA		Letters w/rev. 3		
M000000035-51		Pullman QA		Letters w/rev. 4		
M000000052-66		Pullman QA		Letters w/rev. 5		
M000067-86		Pullman QA		Letters w/rev. 6		

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #39

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
M0000087-114		Pullman QA		Letters w/rev. 7		
M0000115-141		Pullman QA		Letters w/rev. 8		
M000142-167		Pullman QA		Letters w/rev. 9		
M000168-191		Pullman QA		Letters w/rev.10		
M000192-219		Pullman QA		Letters w/rev.11		
M000220-249		Pullman QA		Letters w/rev.12		
M00000250		Pullman QA	8/3/83	Letter	Grant	Hawkinson
M00000251		Pullman QA	8/4/83	Letter	Lawler	Hawkinson
M00000252		Pullman QA	8/5/83	Letter	Cosaro	Lawler
M00000253		Pullman QA	8/5/83	Letter	Lawler	Sommerfield/ Cosaro
M00000254		Pullman QA	8/5/83	Letter	Lawler	Cosaro
M00000255- 526		Pullman QA	8/17/83	Letter	Keppler	Farrar
M00000257		Pullman QA	9/13/83	Letter	Lawler	Somerfield/ Cosaro
M00000258		Pullman QA	9/22/83	Letter	Somerfield	Hawkinson
M00000259		Pullman QA	10/14/83	Memo	Grant	Lawler
M00000260-261		Pullman QA	10/17/83	Letter	Cosaro	Grant
M00000262-263		Pullman QA	10/24/83	Memo	Grant	Lawler
M00000264		Pullman QA	11/4/83	Letter	Lawler	Sommerfield/ Cosaro
M00000265-266		Pullman QA	11/4/83	Memo	Grant	Lawler
M00000267		Pullman QA	11/8/83	Letter	Sommerfield	Hawkinson
M00000268		Pullman QA	11/9/83	Letter	Sommerfield	Hawkinson
M00000269-271		Pullman QA	11/15/83	Letter	Shewski	Hawkinson
M00000272		Pullman QA	11/17/83	Letter	Cosaro	Brown
M00000273		Pullman QA	11/21/83	Letter	Lawler	Hawkinson

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #39

Bates Stamp No.	Privi- leged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
M00000274- 275		Pullman QA	11/23/83	Memo	Grant	Lawler
M00000276		Pullman QA	12/6/83	Letter	Cosaro	Lawler
M00000277		Pullman QA	2/21/84	Letter	Lawler	Brown
M00000278		Pullman QA	2/23/84	Letter	Cosaro	Brown
M00000279		Pullman QA	4/3/84	Letter	Lawler	Cosaro
M00000280		Pullman QA	5/1/84	Letter	Lawler	Cosaro
M00000281		Pullman QA	5/15/84	Letter	Lawler	Shamblin
C0000000- 0011		CECo Const. (Garling/ Byrka)	11/7/83	Memo	Various	Tapella

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #47

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0001440-1507		Licensing	05/7/84	Letter W/IR	O'Connor	Keppler
A0005720-5777		Licensing		Item 83 09-10A packet		
A0005778-5830		Licensing		Item 83 09-10B packet		
A0005831-5880		Licensing		Item 83 09-10C packet		
M0000035-0051		Pullman QA		Letter W/Rev 4		
A0001508-1572		Pullman QA	07/6/84	Letter		
A0001577-1581		Pullman QA	08/03/84	Letter		
A0001573-1574		Pullman QA	07/23/84	Letter		
A0001582-1652		Pullman QA	01/12/84	Letter	keppler	Swartz
A0001665-1666		Pullman QA	04/25/85	Letter		
A0001662-1664		Pullman QA	03/27/83	Letter		
A0001654-1661		Pullman QA	03/11/85	Letter		
M00000250		Pullman QA	08/03/83	Letter	Grant	Hawkins
M00000251		Pullman QA	08/04/83	Letter	Lawler	Hawkins
M00000252		Pullman QA	08/05/83	Letter	Casaro	Lawler
M00000253		Pullman QA	08/05/83	Letter	Lawler	Sommerfield
M00000254		Pullman QA	08/05/83	Letter	Lawler	Casaro
M00000255-0256		Pullman QA	08/17/83	Letter	Keppler	Farrar
M00000257		Pullman QA	09/13/83	Letter	Lawler	Sommerfield
M00000258		Pullman QA	09/02/83	Letter	Sommerfield	Hawkinson
M00000259		Pullman QA	10/14/83	Memo	Grant	Lawler

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #47

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
M00000260-0261		Pullman QA	10/17/83	Letter	Casaro	Grant
M00000262-0263		Pullman QA	10/24/83	Memo	Grant	Lawler
M00000264		Pullman QA	11/04/83	Letter	Lawler	Sommerfield Casaro
M00000265-0266		Pullman QA	11/04/83	MEMO	GRANT	Lawler
M00000267		Pullman QA	11/08/83	Letter	Sommerfield	Hawkinson
M00000268		Pullman QA	11/09/83	Letter	Sommerfield	Hawkinson
M00000269-0271		Pullman QA	11/15/83	Letter	Shewski	Hawkinson
M00000272		Pullman QA	11/17/83	Letter	Casaro	Brown
M00000273		Pullman QA	11/21/83	Letter	Lawler	Hawkinson
M00000274-0275		Pullman QA	11/23/83	Memo	Grant	Lawler
M00000276		Pullman QA	12/06/83	Letter	Casaro	Lawler
M00000277		Pullman QA	1/21/84	Letter	Lawler	Brown
M00000278		Pullman QA	1/23/84	Letter	Casaro	Brown
M00000279		Pullman QA	4/3/84	Letter	Lawler	Casaro
M00000280		Pullman QA	1/1/84	Letter	Lawler	Casaro
M00000281		Pullman QA	5/15/84	Letter	Lawler	Shamblin
B00000660-0661		CECo Site QA	10/31/83	Surveillance Report		
C00000000-0011		CECo Construction (Gailing/Brylka)	11/7/83	Memo ance Report	Various	Tapellaer
C00000040-0042		CECo Construction (Brylka)	06/15/84	Memo ance Report	QA Surveillance Report w/ hand written comments	Tapellaer
C00000023		Pullman Engineering	2/19/85	Draft Ltr		weiher
C00000024-0027		Pullman Engineering		Letters W/Rev 4	Hand written notes	Weiher

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #47

Bates Stamp No.	Privi- leged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
C0000035- 0051		Pullman QA		Letters W/Rev 4		
N0000000- 0006		Pullman Engineering	Various 1983	Hand written notes		Weiher
N0000007- 0011		Pullman Engineering	<i>Undated</i>	Hand written notes		Weiher
N0000012- 0014		Pullman Engineering	<i>Undated</i>	Hand written notes		Weiher
N0000015- 0023		Pullman Engineering	2/19/85	Draft letter		Weiher
N0000024- 0027		Pullman Engineering	<i>11/1/84</i>	Hand written notes		Weiher
N0000035- 0051		Pullman QA		Letters w/Rev 4		

INDEX FOR DOCUMENTS RESPONSIVE TO SPECIFIC INTERROGATORY #48

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
A0001440-1507		Licensing	05/7/84	Letter W/IR	O'Connor	Keppler
A0002364-2384		Licensing	15/20/84	Letter W/IR	O'Connor	Keppler
A0005720-5777		Licensing		Item 83 09-10A packet		
A0005831-5880		Licensing		Item 83 09-10C packet		
A0001508-1572		Pullman	07/6/84	Letter		
A0001577-1581		Pullman	08/03/84	Letter		
A0001573-1574		Pullman	07/23/84	Letter		
A0001582-1652		Pullman	01/12/84	Letter	keppler	Swartz
A0001665-1666		Pullman	04/25/85	Letter		
A0001662-1664		Pullman	03/27/83	Letter		
A0001654-1661		Pullman	03/11/85	Letter		
C0000040-0042		CECo Construction (Brylka)	06/15/84	Memo ance Report	QA Surveillance Report w/ hand written comments	Tapellaer
C0000023		Pullman Engineering	2/19/85	Draft Ltr		weiher
C0000024-0027		Pullman Engineering		Letters W/Rev 4	Hand written notes	Weiher
N0000000-0006		Pullman Engineering	Various 1983	Hand written notes		Weiher

Bates Stamp No.	Privileged AC OR WP	Source of Document	Date of Document	Type of Document	To	From
N0000007-0011		Pullman Engineering	Updated	Hand written notes		Weiher
N0000012-0014		Pullman Engineering	Updated	Hand written notes		Weiher
N0000015-0023		Pullman Engineering	2/19/85	Draft letter		Weiher
N0000024-0027		Pullman Engineering	12/1/84	Hand written notes		Weiher
C0000000-0011		CECo Construction (Gailing/Brylka)	11/7/83	Memo ance Report	Various	Tapellaer
C0000012-0013		CECo Construction (Craft/	7/6/83	Letter	Wrucke	Croft
N0005778-5830		Licensing		Item 83 09-10C packet		

July 31, 1985

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

DOCKETED
USNRC

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

85 AUG 13 P3:24

In the Matter of:)
COMMONWEALTH EDISON COMPANY)
(Braidwood Nuclear Power) Docket Nos. 50-456
Station, Units 1 and 2) 50-457

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

CERTIFICATE OF SERVICE

I Rebecca J. Lauer, one of the attorneys for Commonwealth Edison Company, certify that the following persons have been served in the above entitled matter with copies of the documents indicated and that service has been executed in the manner indicated.

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Administrative Law Judge
Atomic Safety and Licensing
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United States Nuclear Regulatory
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Washington, DC 20555

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***Atomic Safety and Licensing
Appeal Board Panel
United States Nuclear Regulatory
Commission
Washington, DC 20555

*Messenger delivery on July 30, 1985 of the following documents:

- 1) July 30, 1985 letter to Douglass Cassel from Michael Miller.
- 2) Applicant's First Partial Response to Rorem's First Set of Quality Assurance Interrogatories and Request to Produce dated July 30, 1985.
- 3) Indices for documents which contain information responsive to specific interrogatories 9, 11, 12, 13, 18, 25, 29, 39, 47, and 48.
- 4) Documents incorporated by reference in the answers to specific interrogatories 9, 12, 13, 18, 25, 29, 39, 47, and 48.

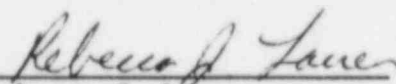
**Deposit in the United States mail on July 31, 1985 the following documents:

- 1) July 30, 1985 letter to Douglass Cassel from Michael Miller.
- 2) Applicant's First Partial Response to Rorem's First Set of Quality Assurance Interrogatories and Request to Produce dated July 30, 1985.

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Dated: July 31, 1985