



Commonwealth Edison
 One First National Plaza, Chicago, Illinois
 Address Reply to: Post Office Box 767
 Chicago, Illinois 60690

DMB

PRIORITY ROUTING

First	Second
KA	BC
DRA	ETC
✓ DRP	SNA
URS	ML
DRSS	OL
DRMA	OT
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FILED

January 15, 1985

Mr. James G. Keppler
 Regional Administrator - Region III
 U. S. Nuclear Regulatory Commission
 799 Roosevelt Road
 Glen Ellyn, IL 60137

Subject: Braidwood Station Units 1 & 2
Braidwood Construction Assessment Program
Monthly Meeting Minutes/Monthly Report
Docket No. 50-456 and 50-457

Dear Mr. Keppler:

The fifth open briefing on the status of the BCAP effort was provided to the NRC on January 3, 1985 at the Mazon EOF. Forwarded herewith is a meeting summary including a copy of the visual-aid material used in the presentations. The next briefing meeting is scheduled for 9:00 a.m. on February 14, 1985 at the Mazon EOF.

Also forwarded herewith for your information is the BCAP Director's Progress Report for the month of December, 1984.

Please direct any questions relating to BCAP to Mike Wallace, Assistant Manager of Projects and the Braidwood Project Manager.

Very truly yours,

David H. Smith
 Nuclear Licensing Administrator

Attachments

cc: NRC Resident Inspector - Braidwood
 NRC BCAP Inspector - Braidwood
 John Hansel - ERC
 N. N. Kaushal - CECO

8502250511 850115
 PDR ADOCK 05000456
 A PDR

9627N

LEO1
 JAN 21 1985

Meeting Summary
BCAP NRC/CECo/ERC Monthly Meeting
January 3, 1985 9:00 a.m.
Mazon EOF

The meeting was opened with a brief statement by A. B. Davis of the NRC Region III giving the purpose for the meeting, that is, to discuss BCAP, it's progress, and the Independent Expert Overview Group's (IEOG) review of the BCAP. Mr. Davis also stated that upon completion of the presentation by CECo and the IEOG, the NRC would respond to questions from the public in attendance.

The following is the agenda utilized for the remainder of the meeting.

I. Introduction

Presented by the Braidwood Project Manager to provide the major topics of the presentation (see Enclosure 1).

II. BCAP Task Force

Presented by the BCAP Director to provide the BCAP achievements for the month of December (see Enclosure 2).

III. Sargent & Lundy

Presented by the Sargent & Lundy Project Director to provide Sargent & Lundy's status of work (see Enclosure 3).

IV. Quality Assurance

Presented by the General Supervisor of Quality Assurance to describe the overview activities of the CECo BCAP QA group (see Enclosure 4).

V. IEOG Progress Report

Presented by the Assistant Project Manager of the IEOG to describe the overview activities of the IEOG (see Enclosure 5).

Additional items discussed during the meeting are included in Enclosure 6. The attendance for the meeting is provided in Enclosure 7. The meeting adjourned at 10:30 a.m.

BRAIDWOOD CONSTRUCTION ASSESSMENT PROGRAM

(BCAP)

MONTHLY NRC STAFF BRIEFING

JANUARY 3, 1984

- | | | |
|------|-----------------------------------|--------------|
| I. | INTRODUCTION | MIKE WALLACE |
| II. | BCAP TASK FORCE | NINU KAUSHAL |
| III. | DISCREPANCY EVALUATION | KEN KOSTAL |
| IV. | QUALITY ASSURANCE | NEIL SMITH |
| V. | INDEPENDENT EXPERT OVERVIEW GROUP | BOB HAM |

BRAIDWOOD CONSTRUCTION ASSESSMENT PROGRAM (BCAP)

MONTHLY BRIEFING

PRESENTED TO

REGIONAL OFFICE -- REGION III
U. S. NUCLEAR REGULATORY COMMISSION

N. N. KAUSHAL
BCAP DIRECTOR
JANUARY 3, 1985

DOCUMENTATION STATUS

THE PROGRAM DOCUMENT HAS BEEN UPDATED TO INCLUDE:

- ° MINOR EDITORIAL CHANGES AND CORRECTIONS --
TRANSMITTED DECEMBER 13, 1984

- ° REVISED CRITERIA ON INSPECTION ATTRIBUTES FOR
SAMPLE EXPANSIONS (PER LETTER O'CONNOR TO KEPPLER,
AUGUST 30, 1984) -- TRANSMITTED DECEMBER 13, 1984

- ° ELIMINATION OF COMMONWEALTH EDISON DESIGNATED
REPRESENTATIVE POSITION -- TRANSMITTED DECEMBER
20, 1984

(1134D)

PRESENTATION OUTLINE

DOCUMENTATION STATUS

CSR STATUS

RPSR STATUS

RSCAP STATUS

MANPOWER STATUS

(1134D)

CSR STATUS

	<u>COMPLETED</u>	<u>TOTAL</u>
IDENTIFICATION OF CONSTRUCTION CATEGORIES	34	34
DESCRIPTION OF POPULATIONS	30	34
IDENTIFICATION OF ITEMS IN POPULATIONS	20	34
RANDOM PORTION SELECTION	13	34
ENGINEERING JUDGEMENT PORTION SELECTION	0/4*	34
REINSPECTION CHECKLISTS	19	31
VERIFICATION PACKAGES	783	2,860**
REINSPECTIONS	484	2,860**
DOCUMENTATION REVIEW CHECKLISTS	6	34
DOCUMENTATION REVIEW PACKAGES	181	3,180**
DOCUMENTATION REVIEWS	60	3,180**

* WORK STARTED ON FOUR (4) POPULATIONS, 0 COMPLETED

** APPROXIMATE, CURRENT ESTIMATE

(1134D)

RPSR STATUS

- IDENTIFICATION OF CONTRACTOR PROCEDURES IS COMPLETE, TOTAL OF 500 PROCEDURES IDENTIFIED.

- IDENTIFICATION OF CONSTRUCTION REQUIREMENTS IN FSAR COMPLETED

- IDENTIFICATION OF PERSONNEL QUALIFICATION AND CERTIFICATION REQUIREMENTS COMPLETED

- IDENTIFICATION OF CONSTRUCTION REQUIREMENTS IN APPLICABLE SPECIFICATIONS IS 85% COMPLETE

- DATA BASE IS BEING FINAL REVIEWED PREPARATORY TO INITIATING PROCEDURE REVIEW

(1134D)

RSCAP STATUS

- ALL SCAPS ARE UNDER REVIEW

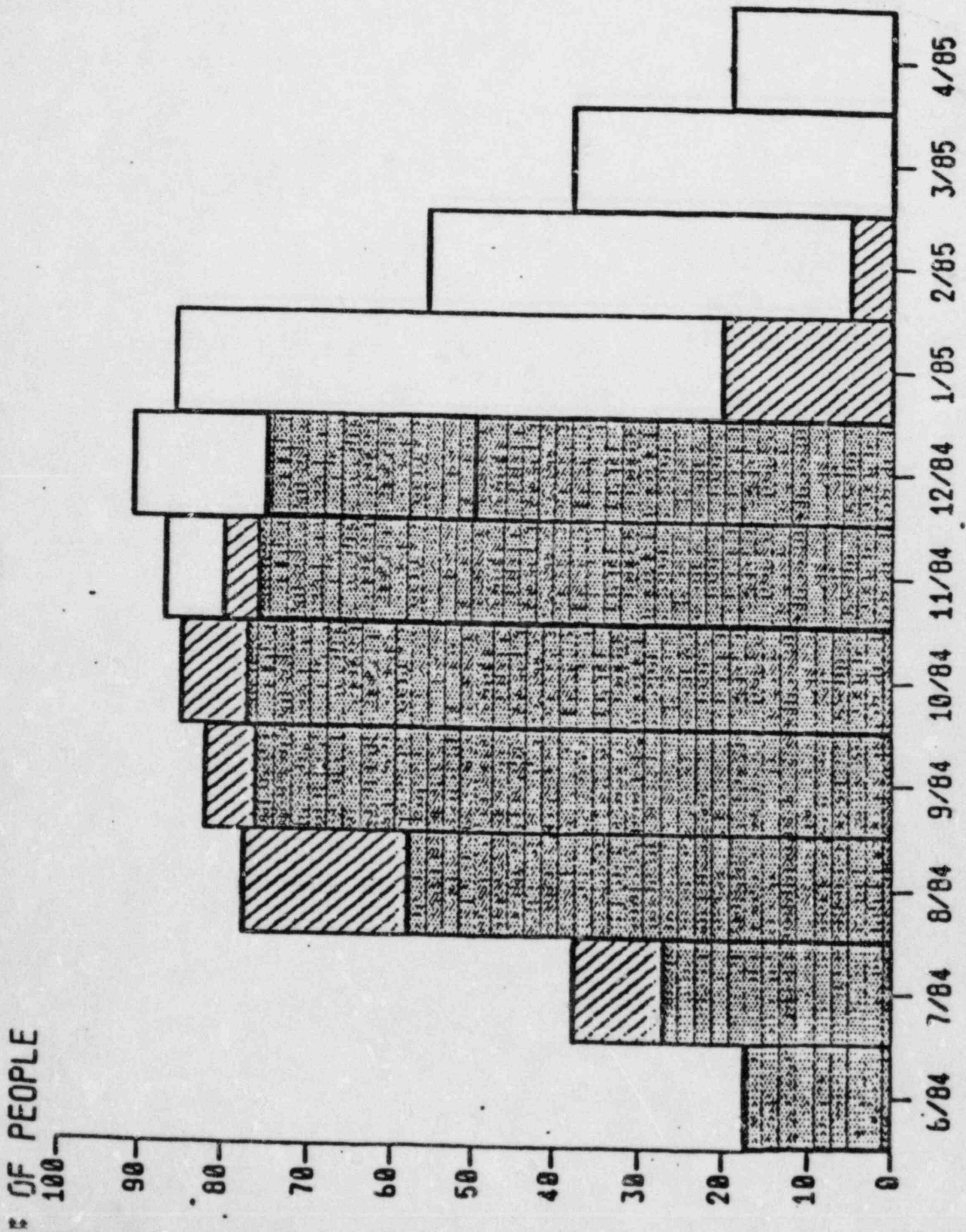
- SIX (6) OBSERVATIONS IDENTIFIED DURING LAST MONTH
(TOTAL TO DATE - 10)

- QCSSR FINAL REPORT DRAFTED AND UNDERGOING REVIEW

- SAFETY RELATED PIPE SUPPORTS REPORT IN DRAFT STAGE

(1134D)

EQUIVALENT MANPOWER



1-03-85

CSR REINSPECTION DISCREPANCIES BY CONTRACTOR

<u>CONTRACTOR</u>	<u>POPULATION</u>	<u>RECEIVED CURRENT</u>	<u>COMPLETED CURRENT</u>
COMSTOCK	CONDUIT	69	18
	CONDUIT HANGERS	1	-
	CABLES	1	-
	CABLE PAN HANGERS	1	-
PULLMAN	DUCTS	35	18
	HVAC EQUIP. INSTALL.	7	-
	DUCT HANGERS	38	21
PHILLIPS GETCHOW	SB PIPING	22	12
	LB PIPING	5	3
NEWBERG	CONCRETE PLACEMENT	58	18
		<u>237</u>	<u>90</u>

CSR DISCREPANCIES BY CLASSIFICATION

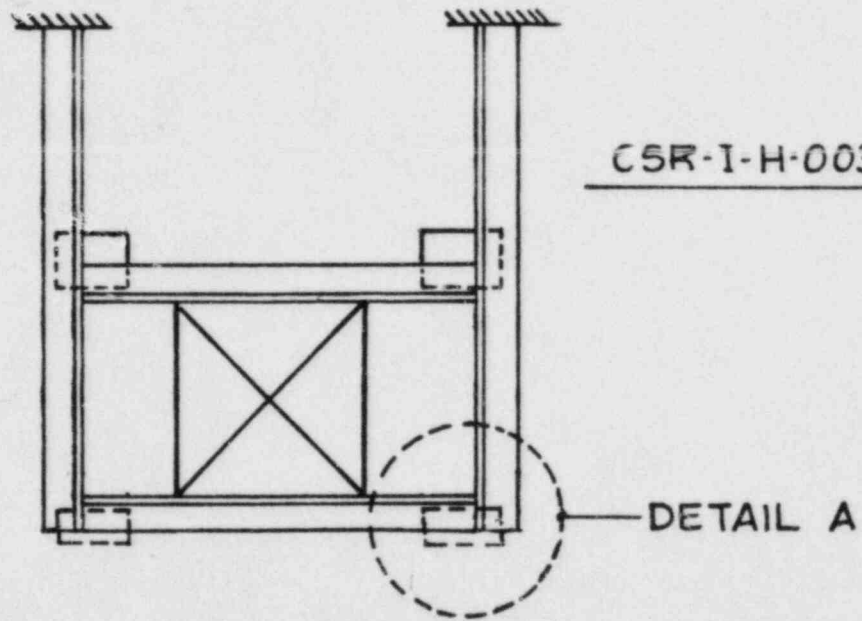
<u>CATEGORY</u>	<u>RECEIVED</u>	<u>COMPLETED</u>
<u>WELDING</u> - UNDERCUT, UNDERSIZE, POROSITY	40	22
<u>DIMENSIONAL</u> - LOCATION, LENGTH	32	23
<u>BOLTING</u> - LOOSE, MISSING, PATTERN	11	5
<u>CONCRETE SURFACE DEFECT</u>	24	6
<u>DAMAGE</u> - DENTS, HOLES	17	2
<u>WRONG MATERIAL</u> - GAUGE, SIZE	3	2
<u>INCOMPLETE HVAC</u> - SEALANT, CONNECTION	3	-
<u>EMBEDMENTS</u>	21	2
<u>HVAC FIT-UP</u> - DUCT, HANGERS, DAMPER	1	1
<u>FABRICATION</u> - CABLE PAN HANGER FIELD FAB	1	-
<u>INVALID</u> - NOT DISCREPANT, NOT SAFETY RELATED	20	20
<u>VALVE STEM ORIENTATION</u>	10	-
<u>SEGREGATION CODE LABELS</u> - MISSING, ETC.	22	4
<u>ELECTRICAL MECHANICAL CONNECTIONS</u> - LOOSE	16	-
<u>ELECTRICAL SEPARATION</u>	7	-
<u>MISCELLANEOUS</u> - I.D. TAGS, ETC.	9	3
	-----	-----
	237	90

MISSING WELD ON
AN HVAC SUPPORT

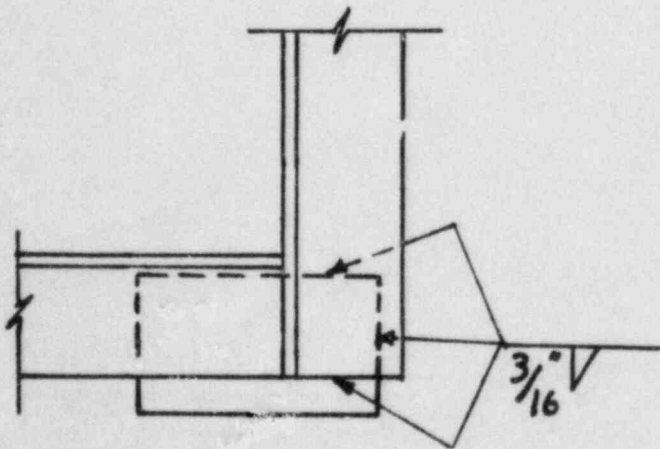
Enclosure 3
Page 3 of 12

JAN. 3, 1985

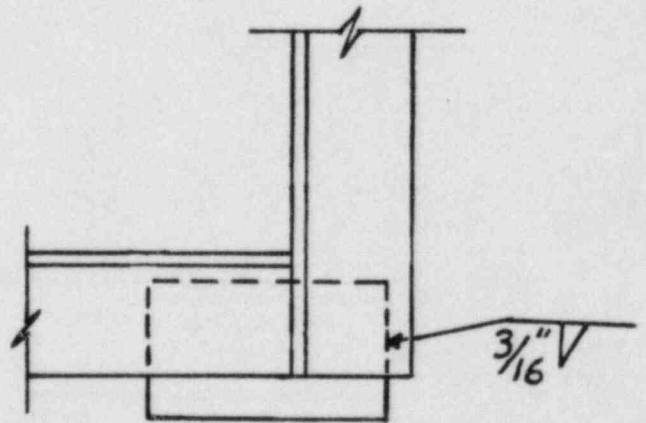
CSR-I-H-003-043-001



ELEVATION



DETAIL A
(AS-DESIGNED)



DETAIL A
(AS-BUILT)

BRAIDWOOD CONSTRUCTION ASSESSMENT PROGRAM

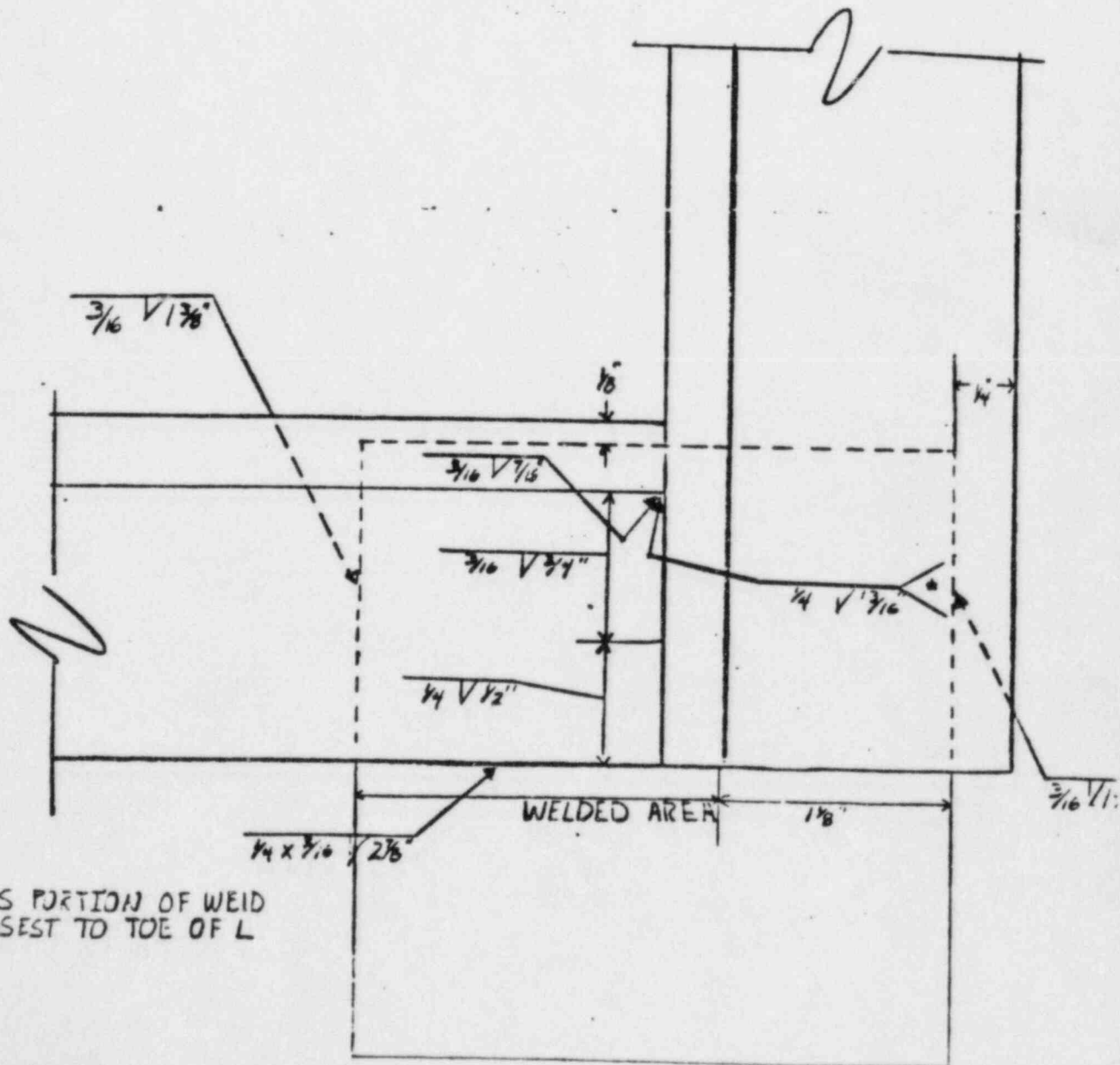
CSR WELD MAP

Weld Map Continuation

Identification No: CSR-T-H-03
Observation Record No: CSR-I-H-03-042-1
Package No: CSR-I-H-03-043
Component No: 2169
Drawing No: M-1323-7
Inspector
Signature: *[Signature]*
Date Inspected: 11-20-84

Braidwood Station Units 1&2
Project 4683/4684
Commonwealth Edison Company
Safety Related
Calculation No: _____
Revision No: _____
Page _____ of _____

787



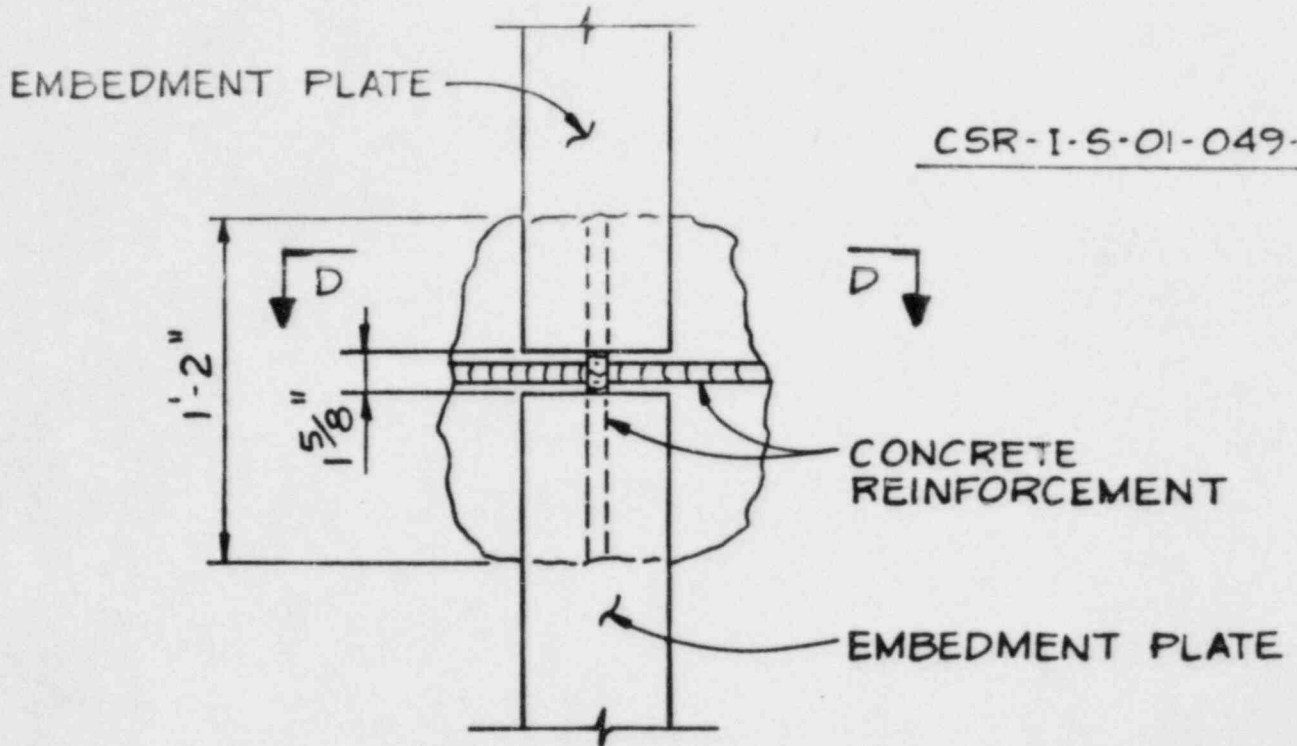
DETAIL 4

CONCRETE REINFORCEMENT EXPOSED DUE
TO SURFACE DEFECTS IN SLAB

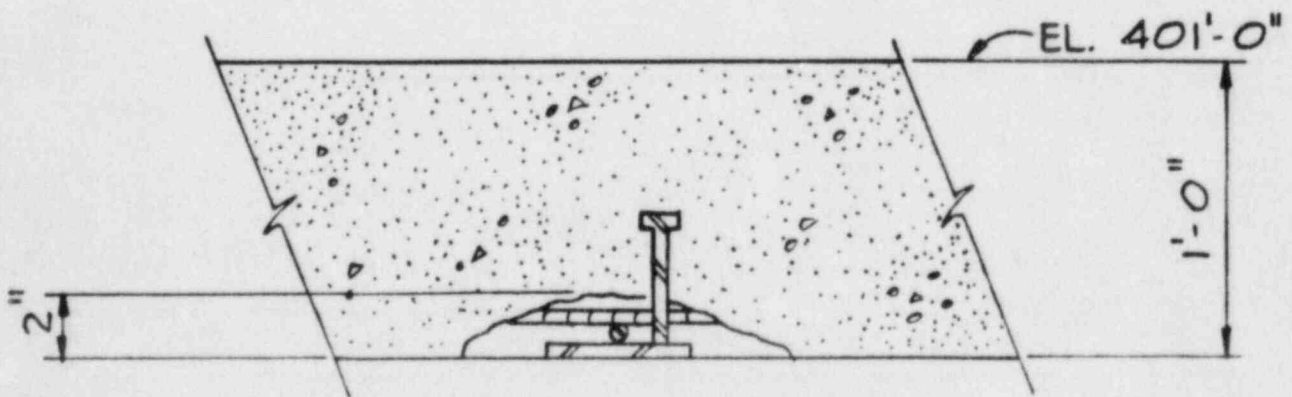
Enclosure 3
Page 5 of 12

JAN. 3, 1985

CSR-I-S-01-049-001



PLAN
(BOTTOM OF SLAB)

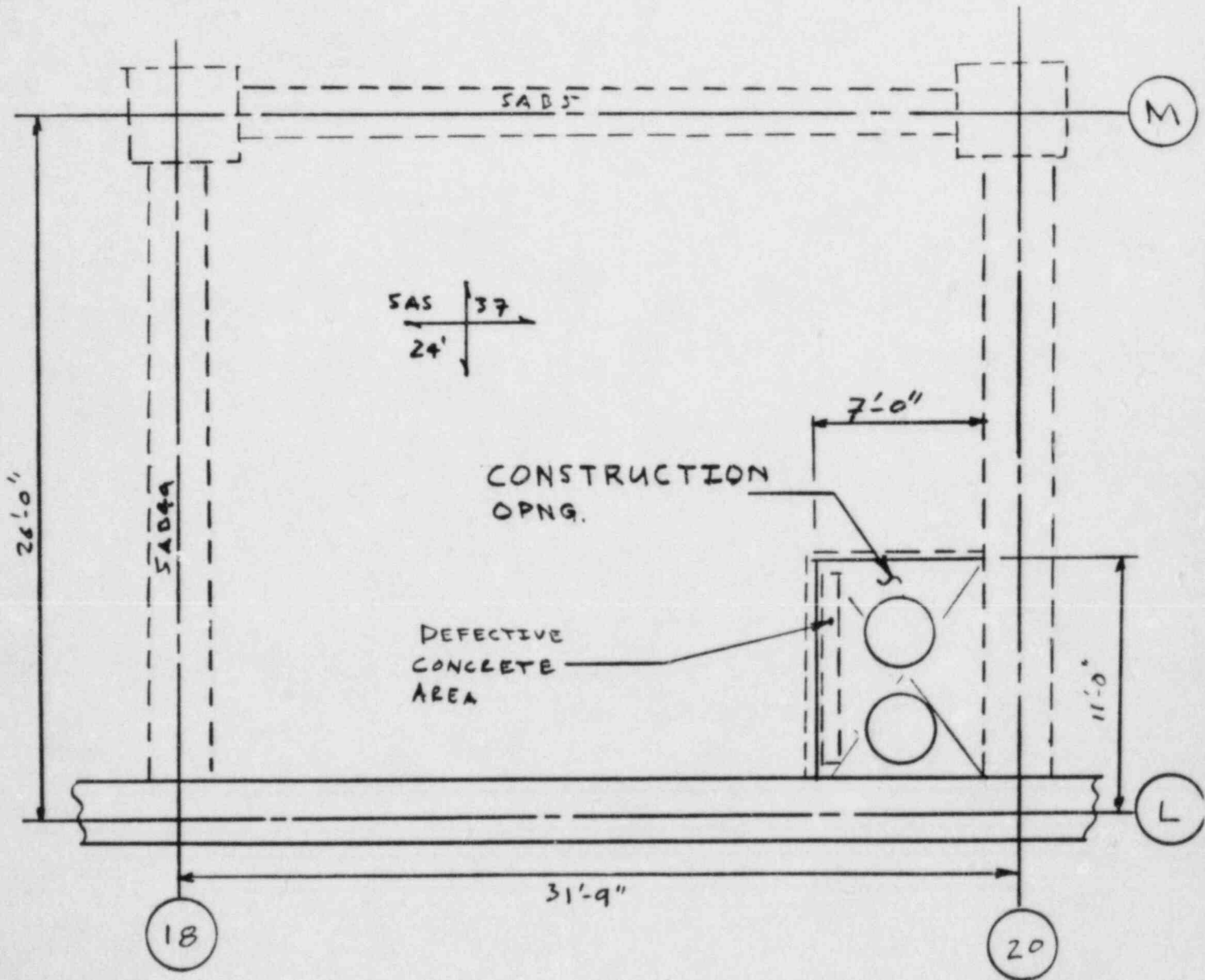


SECTION D

OBSERVED DISCREPANCY

DEFECTIVE CONCRETE OBSERVATION :

CSR - I - S - 001 - 049 - 001



PLAN (EL. 401'-0")

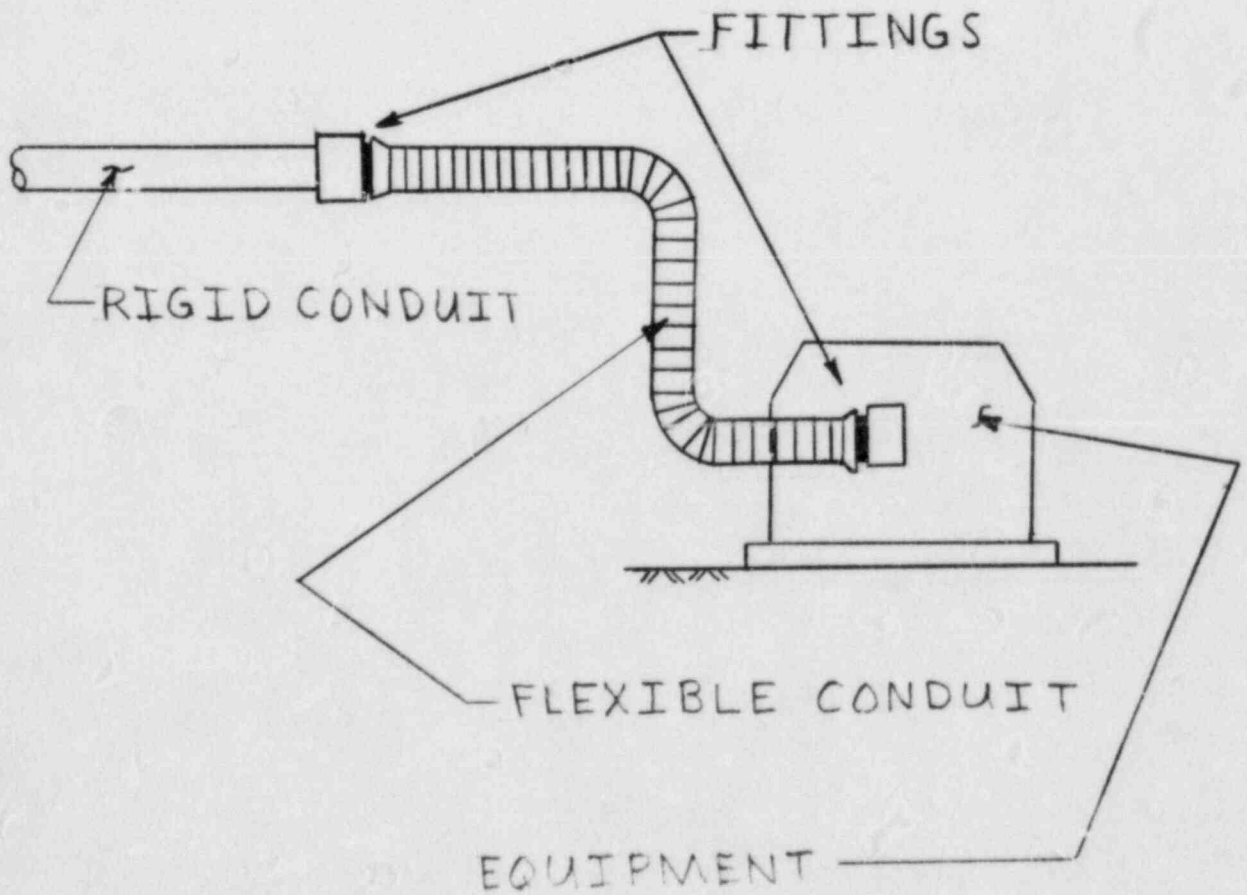
ELECTRICAL DISCREPANCY DISCUSSION

DISCREPANCY

FLEX CONDUIT FITTINGS LOOSE

A. CABLES NOT INSTALLED

B. CABLES INSTALLED AND Q.C. ACCEPTED

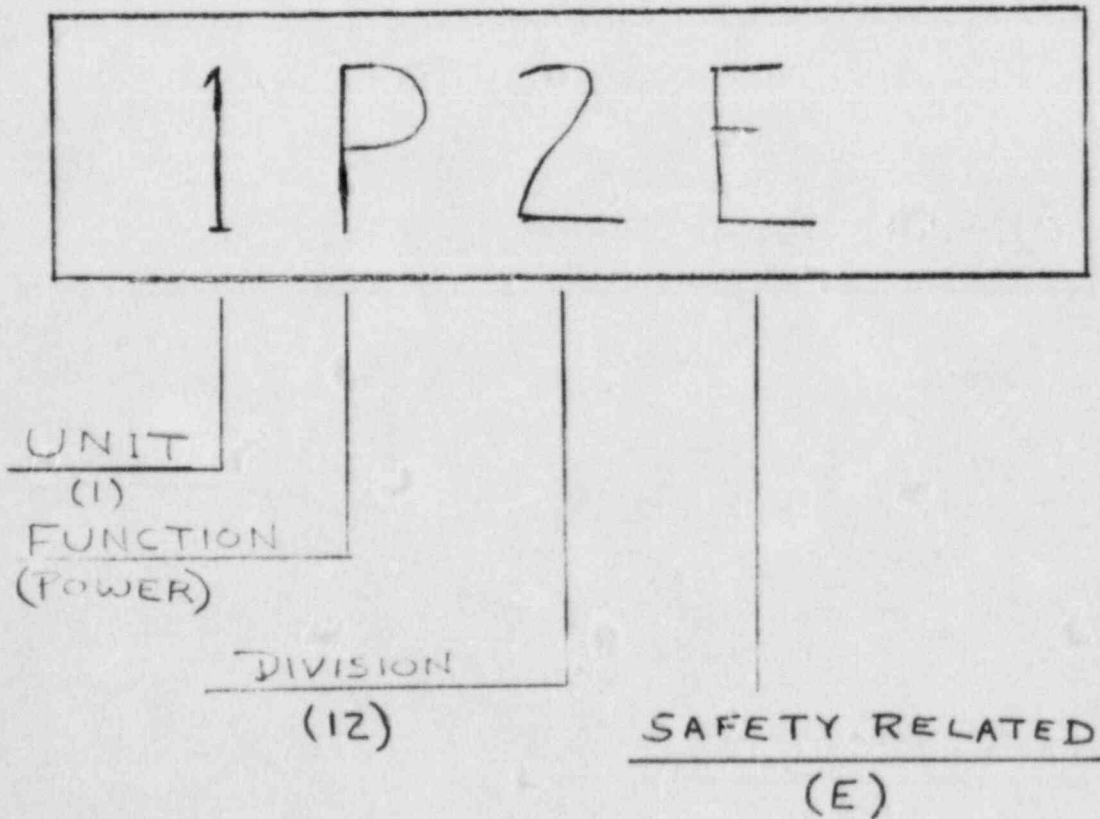


ELECTRICAL DISCREPANCY DISCUSSION

SEGREGATION CODE LABELS

DISCREPANCY

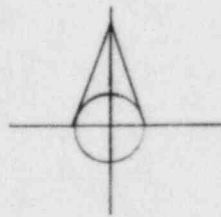
- A. CONDUIT MISSING SEGREGATION CODE LABEL AT EQUIPMENT END
- B. ONLY ONE HALF OF SEGREGATION CODE ON CONDUIT IC OF ICIE



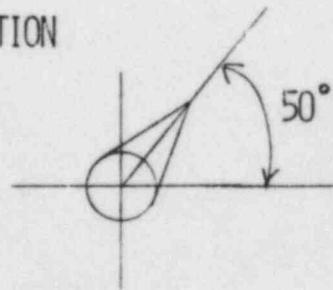
SMALL BORE PIPING CONFIGURATION DISCREPANCIES
(CSR-I/R-M-01 SERIES)

DISCREPANCY # CSR-I-M-01-030-1

VALVE 1RC8060D STEM ORIENTATION



AS DESIGNED
AND QC ACCEPTED



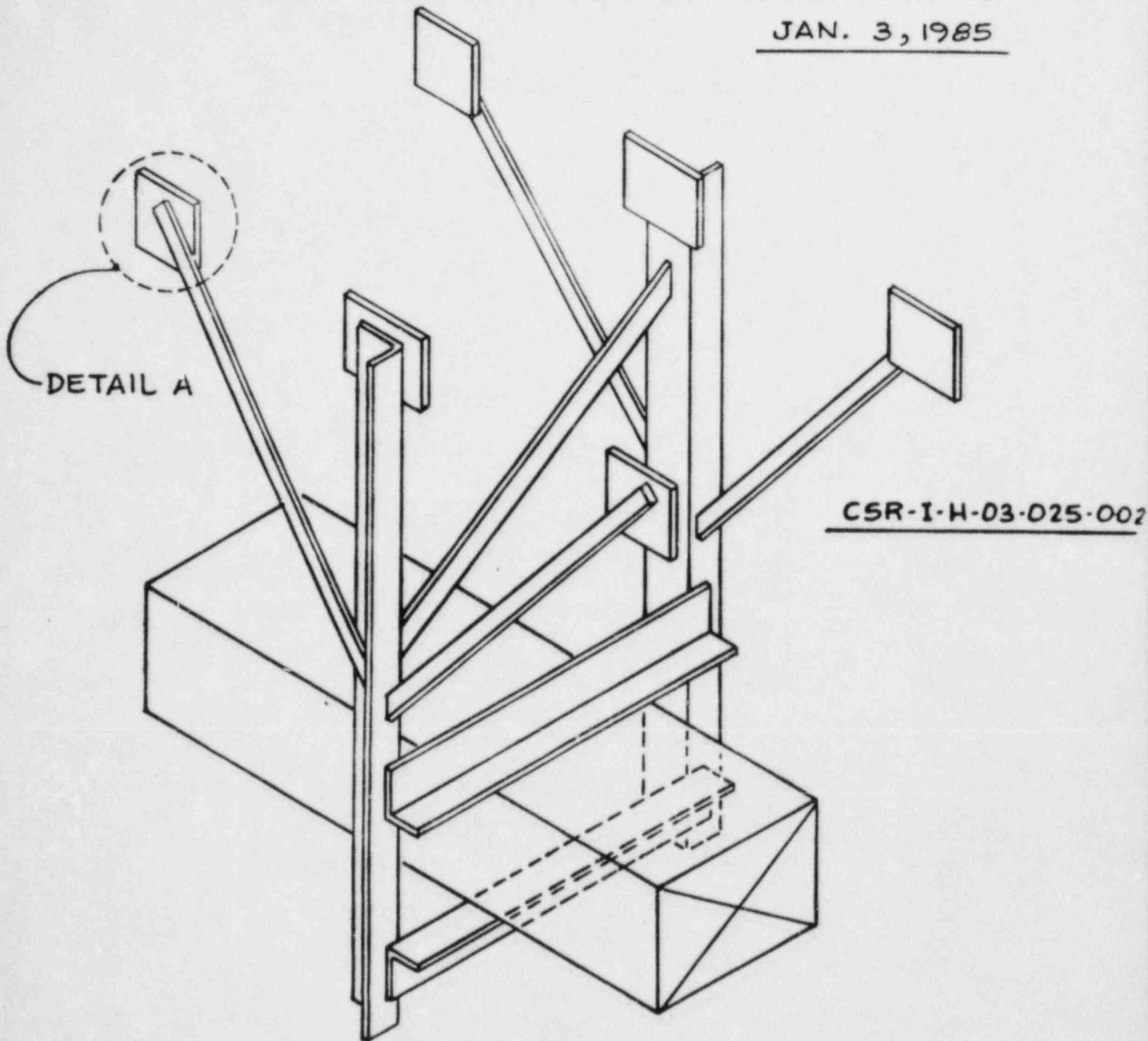
AS REINSPECTED
BY BCAP

FIT-UP GAP AND UNDERLENGTH FILLET

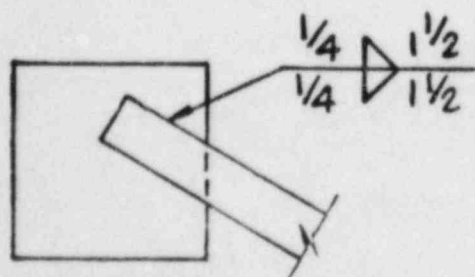
WELD ON AN HVAC SUPPORT

Enclosure 3
Page 10 of 12

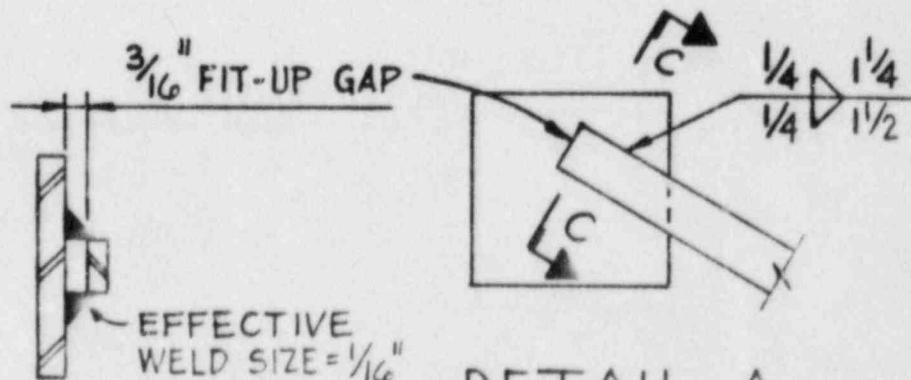
JAN. 3, 1985



CSR-I-H-03-025-002



DETAIL A
(AS-DESIGNED)

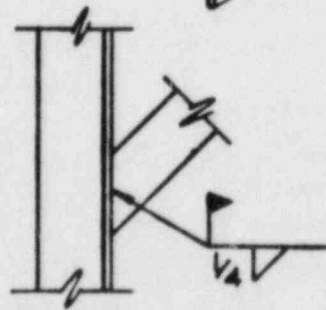
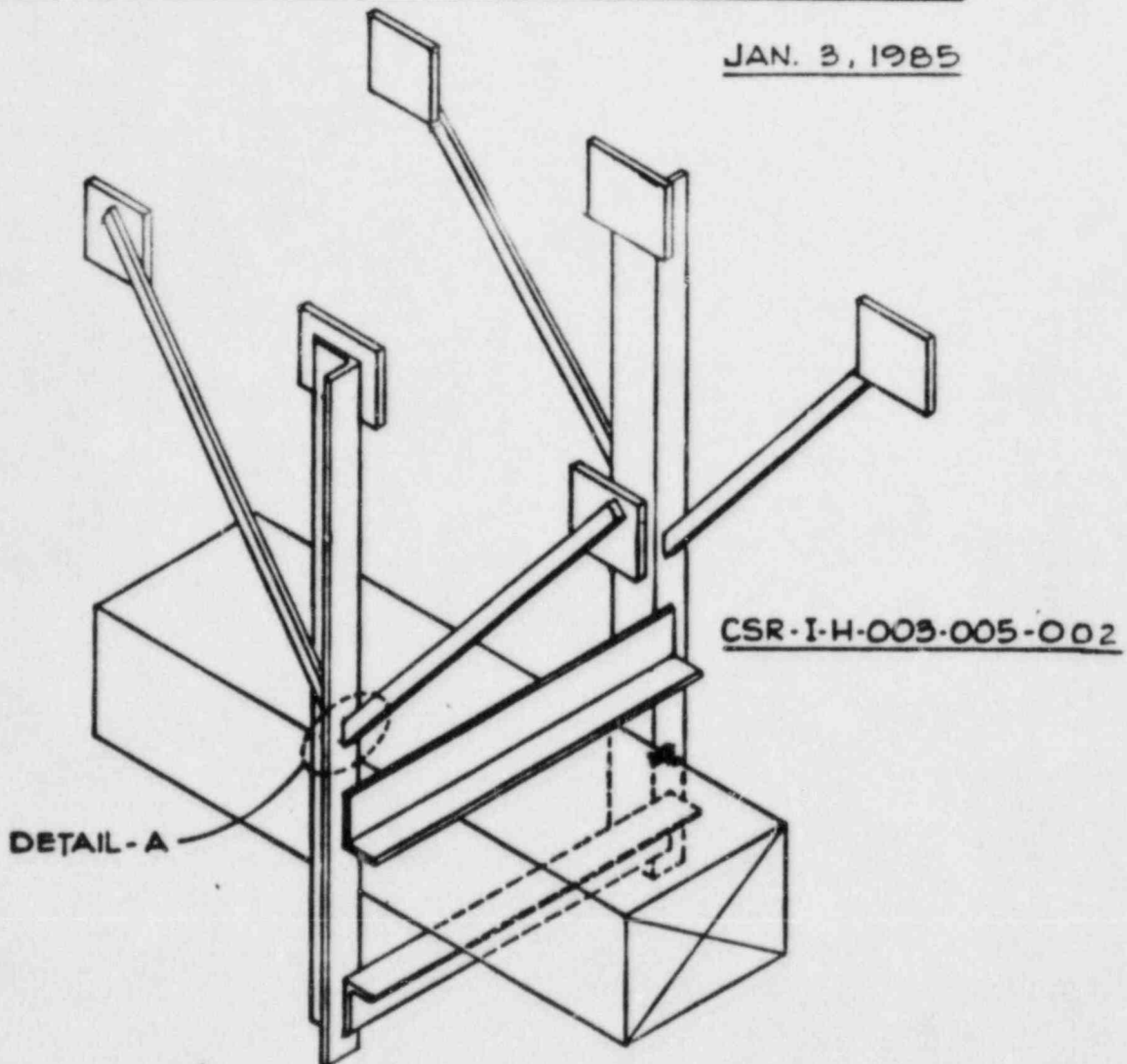


SECTION C

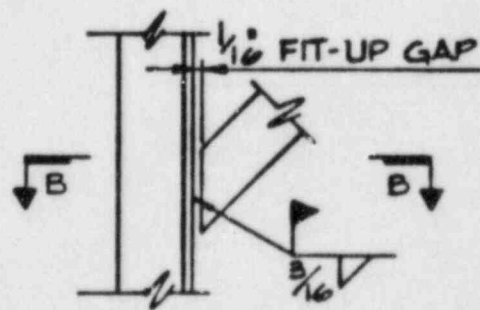
DETAIL A
(AS-BUILT)

FIT-UP GAP AND UNDERSIZE FILLET WELD ON AN HVAC SUPPORT

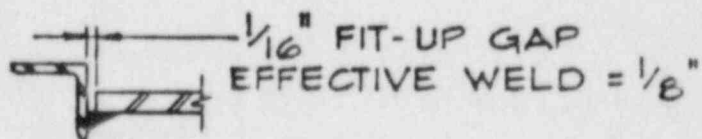
JAN. 3, 1985



DETAIL - A (AS DESIGNED)



DETAIL - A (AS BUILT)



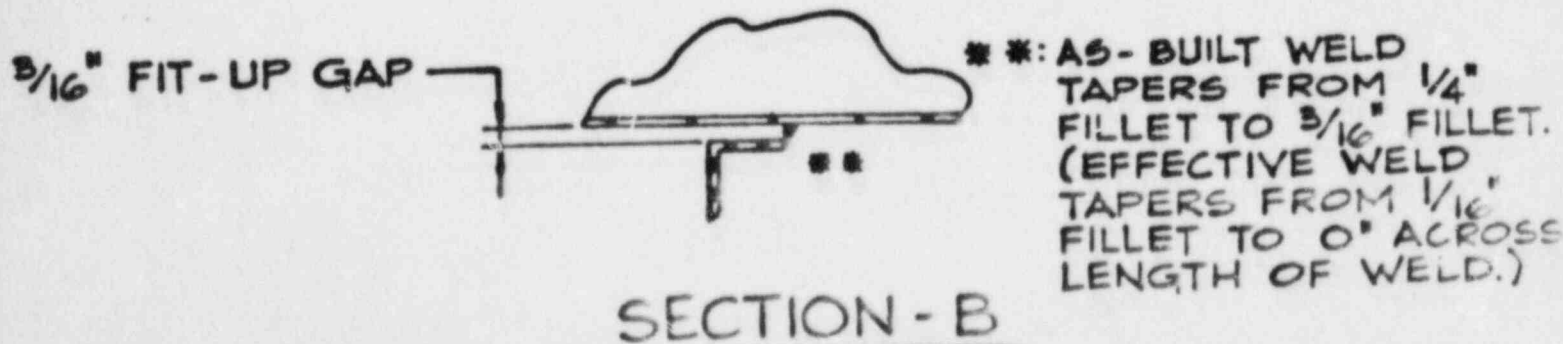
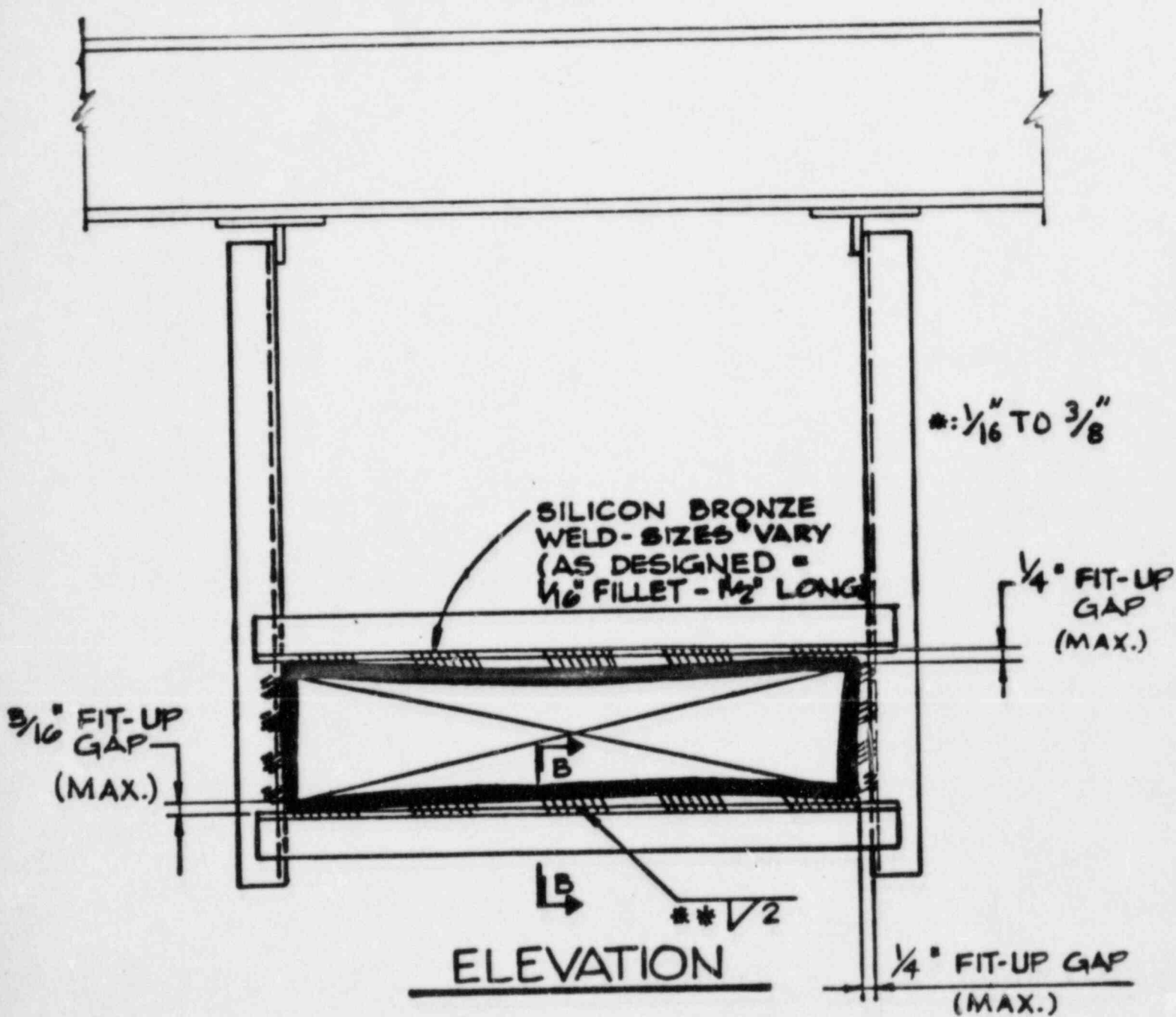
SECTION - B

FIT-UP GAP ON HVAC DUCT TO HANGER WELDS

Enclosure 3
Page 12 of 12

CSR-I-H-003-005-003

JAN. 9, 1985



BCAP Q.A.

MONTHLY BRIEFING

N. P. SMITH

JANUARY 3, 1985

- ORGANIZATION/PERSONNEL

- DOCUMENT REVIEWS

- AUDIT/SURVEILLANCE SCHEDULES AND RESULTS

- COMPARISON OF VERIFICATION AND VALIDATION METHODS
FOR Q.A. OVERINSPECTION

- Q.A. OVERINSPECTION/OVERVIEW

- HOLD POINTS

ORGANIZATION/PERSONNEL

- ONE INSPECTOR HAS BEEN ADDED

PERSONNEL

EXPERIENCE LEVELS

(AVERAGE YEARS)

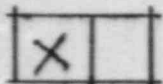
POSITIONS	OVERALL		NUCLEAR		Q.A.	
	DEC. 6	JAN. 3	DEC. 6	JAN. 3	DEC. 6	JAN. 3
GENERAL SUPERVISOR - Q.A. LEAD ELEMENT ENGINEERS OVERINSPECTION SUPERVISOR Q.A. ENGINEERS/SPECIALISTS	22.4	22.4	14.2	14.2	4.6	4.6
INSPECTORS	17.4	16.6	8.3	8.3	N/A	N/A

+ 1 INSPECTOR ASSIGNED

DOCUMENT REVIEWS

(DECEMBER)

REVISIONS TO POLICY/PLANS	3
REVISIONS TO PROCEDURES/INSTRUCTIONS	7
REINSPECTION CHECKLISTS/INSTRUCTIONS	15
INSPECTOR CERTIFICATION PACKAGES	0
	<hr/>
	25

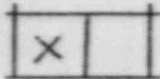


- SCHEDULED SURVEILLANCE



- COMPLETED SURVEILLANCE

ACTIVITY/ SUBJECT AREA	YEAR	1985											
	MONTH	JANUARY			FEBRUARY				MARCH				
	WEEK ENDING	11	18	25	1	8	15	22	1	8	15	22	29
CSR - PROCEDURES													
BCAP-20	X								X				X
BCAP-21	X								X				X
BCAP-22	X								X				X
BCAP-23	X								X				X
BCAP-24		X								X		X	
BCAP-25	X								X		X		X
BCAP-30		X								X		X	
RPSR - PROCEDURES													
BCAP-41			X		X			X					
BCAP-42			X		X			X			X		X
BCAP-43			X		X			X			X		X
RSCAP - PROCEDURES													
BCAP-60	X			X			X			X			X
ADMIN. - PROCEDURES													
BCAP-01	X				X						X		X
BCAP-03			X			X						X	
BCAP-04	X											X	
BCAP-06				X			X		X				
BCAP-08			X								X		X
S & L - PROCEDURES													
BCAP Related								X					
PROJECT - PROCEDURES													
BCAP Related							X				X		



- SCHEDULED AUDIT

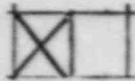


- COMPLETED AUDIT

ACTIVITY/ SUBJECT AREA	YEAR	1985											
	MONTH	JANUARY			FEBRUARY				MARCH				
	WEEK ENDING	11	18	25	1	8	15	22	1	8	15	22	29
CSR - PROCEDURES													
BCAP-20						X							
BCAP-21						X							
BCAP-22						X							
BCAP-23						X							
BCAP-24						X							
BCAP-25						X							
BCAP-30						X							
RPSR - PROCEDURES													
BCAP-41										X			
BCAP-42										X			
BCAP-43										X			
RSCAP - PROCEDURES													
BCAP-60										X			
ADMIN. - PROCEDURES													
BCAP-01						X							
BCAP-02										X			
BCAP-03										X			
BCAP-04										X			
BCAP-06			X								X		
BCAP-07										X			
BCAP-08										X			
S & L - PROCEDURES													
BCAP Related				X								X	
PROJECT - PROCEDURES													
BCAP Related			X										

BCAP Q.A. SURVEILLANCE SCHEDULE
(ANNUAL)

SHEET 1 OF 1



- SCHEDULED SURVEILLANCE

101

Surveillances To Date



- COMPLETED SURVEILLANCE

ACTIVITY/ SUBJECT AREA	YEAR	1984															
	MONTH	SEPTEMBER			OCTOBER				NOVEMBER				DECEMBER				
	WEEK ENDING	14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28
CSR - PROCEDURES																	
BCAP-20				█		█		█		█				█			
BCAP-21				█	█	█		█		█				█			
BCAP-22				█	█	█	█	█	█	█	█						
BCAP-23				█	█	█	█	█	█	█	█				█		
BCAP-24				█	█	█	█	█	█	█	█					█	
RPSR - PROCEDURES																	
BCAP-41					█	█	█		█		█				█		
BCAP-42					█	█	█		█		█				█		
BCAP-43					█	█	█	█	█	█	█						
RSCAP - PROCEDURES																	
BCAP-60					█	█	█		█		█				█		
ADMIN. - PROCEDURES																	
BCAP-01					█	█	█		█		█				█		
BCAP-02					█	█	█		█		█				█		
BCAP-03					█	█	█		█		█				█		
BCAP-04					█	█	█		█		█				█		
BCAP-06						█		█		█		█				█	
BCAP-07						█		█		█		█					█
BCAP-08						█		█		█		█					█

BCAP Q.A. AUDIT SCHEDULE
(ANNUAL)

SHEET 1 OF 1

- SCHEDULED AUDIT

Audits To Date

7

- COMPLETED AUDIT

ACTIVITY/ SUBJECT AREA	YEAR	1984															
		SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER						
		14	21	28	05	12	19	26	02	09	16	23	30	07	14	21	28
CSR - PROCEDURES																	
BCAP-20																	
BCAP-21																	
BCAP-22																	
BCAP-23																	
BCAP-24																	
RPSR - PROCEDURES																	
BCAP-41																	
BCAP-42																	
BCAP-43																	
RSCAP - PROCEDURES																	
BCAP-60																	
AUHN. - PROCEDURES																	
BCAP-01																	
BCAP-02																	
BCAP-03																	
BCAP-04																	
BCAP-06																	
BCAP-07																	
BCAP-08																	

AUDIT AND SURVEILLANCE RESULTS
(DECEMBER)

<u>BCAP PROCEDURES</u>	<u>FINDINGS AND ITEMS</u>	
	<u>OPENED</u>	<u>CLOSED</u>
ADMIN	0	2
CSR	1	0
RSCAP	0	0
RPSR	0	0
	<hr/>	
TOTAL	1	2

1 ITEM OPENED INVOLVED PROCEDURE INADEQUACY

AUDIT AND SURVEILLANCE RESULTS
(TO-DATE)

<u>BCAP PROCEDURES</u>	<u>FINDINGS AND ITEMS</u>	
	<u>OPENED</u>	<u>CLOSED</u>
ADMIN	11	11
CSR	10	7
RSCAP	1	1
RPSR	0	0
	<hr/>	
TOTAL	22	19

COMPARISON OF VERIFICATION METHOD AND VALIDATION METHOD
FOR Q.A. OVERINSPECTION

	OBJECTIVE %	SUBJECTIVE %
AVERAGE VERIFICATION	100	96.5
AVERAGE VALIDATION	100	97.6
ACCEPTANCE CRITERIA	95	90

Q.A. OVERINSPECTION/OVERVIEW

- RECERTIFIED Q.A. OVERVIEW INSPECTORS TO PTL'S RECENTLY REVISED PROCEDURE PRIOR TO START OF OVERINSPECTIONS

- COMMENCED OVERINSPECTIONS ON 12-27-84

- POPULATIONS COVERED TO-DATE:

SMALL BORE PIPE CONFIGURATION

HVAC DUCT

HOLD POINTS

- BCAP Q.A. LETTER OF DECEMBER 20, 1984
 - LIFTED HOLD POINT FOR REINSPECTION AND DOCUMENTATION REVIEW ACTIVITIES
 - BCAP TASK FORCE REQUESTED TO NOTIFY BCAP Q.A. A MINIMUM OF 24 HOURS PRIOR TO COMMENCEMENT OF REINSPECTIONS OR DOCUMENTATION REVIEWS FOR EACH POPULATION
 - AS AN EXTRA MEASURE OF CONSERVATISM FOR BCAP THE HOLD POINT FOR BCAP TASK FORCE REINSPECTORS WILL BE LIFTED UPON THE ACCEPTABILITY OF BCAP INSPECTORS TO PERFORM BCAP-24 ACTIVITIES ON AN INDIVIDUAL BASIS THROUGH THE COMPLETION OF BCAP

BCAP STATUS

MEETING

for

December, 1984

INDEPENDENT EXPERT OVERVIEW GROUP

January 3, 1985

TOPICS

- o Executive Summary
- o Overview Activities
- o Closed Issues and Concerns
- o Open Issues and Concerns

EXECUTIVE SUMMARY

o BCAP OVERVIEW

Functioning as designed with checks and balances in place.

o CSR ELEMENT

Improvement in production of reinspection packages and performance of reinspections. No major problems are evident.

o RPSR ELEMENT

Checklists nearing completion. Actual review of procedures near commencement.

o RSCAP ELEMENT

Determination of relevant commitments still in progress.

o BCAP QA

Large effort on recertification of PTL inspectors.

OVERVIEW ACTIVITIES

REINSPECTIONS

- o Surfaced/closed concern on quality of completed reinspection packages.

AUDITS

- o Monitored BCAP QA audits

DOCUMENTATION REVIEW

- o Maintained reviews of BCAP observations and S&L Design Significant Evaluations
- o Maintained reviews of checklists, procedures and plans

CLOSED ISSUES

ISSUES

- 1) Revision to BCAP Program Document.
- 2) Resolution on "Hold Tags" for areas to be reinspected by BCAP inspectors - Issued PCD-15.
- 3) Evaluation of CSR discrepancies to the most adverse location within the population.

OPEN ISSUES

ISSUES

- 1) Control points for reinspections.
- 2) Resolution of inspector reinspection element of RSCAP.
- 3) Resolution of documentation problems found during small bore piping configuration review.

Enclosure 6

Items Discussed at the NRC/CECo/ERC Meeting

January 3, 1985 9:00 a.m.

During Mr. Kaushal's presentation, it was stated that under CSR element of BCAP, three populations will require document review only. These three populations have been identified as Post Tensioning, Cored Holes and Cadwelds.

Mr Kostal stated, during the Sargent & Lundy presentation, that the testing of the silicon bronze welding process has been established and that he would keep the NRC informed of the test results in future meetings.

A discussion of the engineering evaluation of loose flex connections on conduit centered around the approach that Sargent & Lundy will take to analyze these discrepancies.

Mr. Smith presented the BCAP-QA activities for the month of December during which discussion centered around the recertification of BCAP-QA inspectors and the validation method used to evaluate BCAP Task Force inspections.

Mr. Ham stated that the IEOG had found an inspection observation with an incorrect elevation stated on it which had been reviewed by the BCAP Engineering group without finding the error. The point was made that the Task Force should not count on catching problems of this type in the Engineering review process. Mr. Ham stated that he had the understanding that BCAP would include the highly stressed items in the Engineering Judgement portion of the reinspection samples under CSR. Mr. Wallace stated that CECO had planned to prepare a comprehensive presentation on the subject of adverse locations and highly stressed samples which would be presented at the February meeting.

This concluded the presentation from CECO and IEOG to the NRC. At this time the NRC opened the meeting for questions to the NRC from the public in attendance.

Mr. D. Cassel expressed a concern that the IEOG did not have a complete understanding of how the highly stressed items were being included in the reinspection sample under CSR.

The NRC stated that the lack of a response to highly-stressed-items question during this meeting did not hurt the BCAP Program. They further stated that they would wait until the February meeting to address this after the presentation on this topic is made by CECO.

Mr. Cassel expressed a second concern which applied to the NRC Policy allowing third party independent groups to be hired by the utility rather than being hired by the NRC. Mr. Cassel said he was not suggesting that BCAP was not operating properly nor was he questioning the integrity or qualifications of the IEOG or BCAP personnel, but rather wanted to express his concerns.

Mr. Forney of the NRC responded to Mr. Cassel's concern and stated that in the past when the NRC was requested to pick the independent review organization, they (NRC) declined to do so. He further explained that in the case of the BCAP IEOG, Region III did review the selection.

Mr. Davis of the NRC stated that the CECO selection of the independent review organization (IEOG) for BCAP followed specifically the policy established by the commissioners of the NRC.

There being no further questions the next meeting was scheduled for February 14, at 9:00 a.m. The meeting was adjourned at 10:30 a.m.

Enclosure 7
List of Attendees

<u>NAME</u>	<u>POSITION</u>	<u>ORGANIZATION</u>
R. A. Gardner	Reactor Inspector	Region III, NRC
A. B. Davis	Deputy Regional Admin.	Region III, NRC
W. L. Forney	Chief, Projects Section 1 A	Region III, NRC
E. Greenman	Asst. Director Branch	Region III, NRC
R. J. Lauer	Attorney	Isham, Lincoln & Beal
L. O. Del George	Asst. Vice President	CECO
D. Cassel	Attorney	PBI
C. W. Schroeder	Proj. Lic. & Compliance Supt.	CECO
P. A. Lau	BCAP Q.A.	CECO
D. H. Smith	Nuclear Licensing Adm.	CECO
J. D. Deress	Proj. Eng. Mgr, BY/BR	CECO
V. A. Hoffman	Site Manager of SWEC	SWEC
W. Willoughby	BCAP Technical Asst.	SWEC
A. Scaccia	Off Site Emer. Planner	CECO
D. L. Leone	Projects Eng. Mgr. - BY & BR	S&L
G. M. Orlov	Asst. Director BCAP	CECO
R. L. Byers	Asst. Director BCAP	CECO
K. T. Kostal	Project Director Braidwood	S & L
J. L. Hansel	IEOG, Project Manager	ERC
R. E. Ham	IEOG, Asst. Project Manager	ERC
B. R. Shelton	Projects Eng. MGR	CECO
N. P. Smith	General Supervisor - QA	CECO
D. L. Shamblin	Proj. Const. Superintendent	CECO
E. E. Fitzpatrick	Asst. Manager QA	CECO
T. J. Maiman	Manager of Projects	CECO
N. N. Kaushal	BCAP Director	CECO
D. L. Farrar	Nuclear Licensing	CECO
W. L. Chase	Consultant	ERC
I. M. Johnson	Nuclear Communications	CECO
M. J. Wallace	Project Mgr.	CECO
R. R. Minue	Nuclear Engineer	State of Ill Dept. Of Nuclear Safety
L. Ferguson	Utility Engineer	I.C.C.
J. McDonald	Utility Engineer	I.C.C.

BRAIDWOOD STATION
BRAIDWOOD CONSTRUCTION ASSESSMENT PROGRAM
REPORT PERIOD DECEMBER 1, - DECEMBER 31, 1984

I. SUMMARY/STATUS

This is the sixth monthly Progress Report on the Braidwood Construction Assessment Program (BCAP), covering the period from December 1, through December 31, 1984.

During this period, CSR inspections have progressed on an additional five populations, bringing the total to eleven. Preparation of additional inspection packages has continued. Document Review was also initiated during this period. In the RPSR effort, accumulation of construction requirements from the FSAR for checklist preparation was completed. Use of Sargent & Lundy specifications for this purpose is nearing completion. Progress continues on all active programs in the RSCAP element.

As of December 31, the number of personnel assigned to the BCAP effort has risen to 104. Satisfactory office and clerical support continues to be available to the BCAP workforce.

II. SCHEDULE ANALYSIS

The rescheduling effort was completed during this period. Resources required to support this schedule have been established and authorized for joining the BCAP workforce in January. Personnel additions in January will include five engineers and 16 inspectors.

III. PERSONNEL AND EQUIPMENT STATUS

BCAP manpower totaled 104 as of December 31, 1984. No additional Inspectors were certified during December. Inspection personnel activities included training, accessibility walkdowns, reinspections, document reviews and weld mapping.

The Mapper Data Base, for tracking observations and verification packages, is being updated regularly. Reports are issued monthly, and interim reports are available on an as-required basis.

IV. BCAP ELEMENT STATUS

A. CSR STATUS

During this period, preparation of visual inspection packages and performance of inspections continued. At this time, 11 populations are being inspected: HVAC Ducts, Duct Hangers, HVAC Equipment, Concrete Placements, Small Bore Pipe Configurations, Large Bore Pipe Configurations, Large Bore Pipe Rigid Pipe Supports, Large Bore Non-Rigid Pipe Supports, Small Bore Pipe Supports, Conduit and Conduit Hangers.

Large bore pipe bolted joints and small bore pipe bolted joints were combined into a single population thus reducing the total populations to 34.

In addition to the 11 populations now being inspected, document review was started for Small Bore Pipe Configuration. Packages for the random portion of the sample are being assembled for two additional reinspection populations and two additional document review populations. Technical review has been completed for 31 of 76 checklists and instructions, of which 14 have been released for reinspection/review. Initial engineering judgment samples have been identified. Packages were issued and reinspection initiated for four populations. Checklists and instructions for the remaining populations in each discipline are being developed.

During December, the number of certified inspectors remained at a total of 22. This total reflects three Level III and nineteen Level II inspectors. To date 544 inspections have been completed with 765 observations recorded.

B. RPSR STATUS

During December, the RPSR group was primarily involved in developing checklists with construction and personnel qualification/certification requirements from the FSAR and applicable Sargent & Lundy specifications. This effort consisted of breaking down referenced codes and standards into construction requirements, preparing ten checklists to complete the total number of 29, and resolving open items. Finalization of the lists requires resolving two remaining open items and then conducting final reviews and signoffs.

Contractor procedures have been assembled for review. Engineers who will be involved are becoming familiar with the general content of these documents. The actual comparison of requirements in checklists to articles in procedures is expected to commence upon finalization of the checklists.

C. RSCAP STATUS

The nine RSCAP programs have progressed as follows:

- a. Quality Control Structural Steel Review - 95%.
- b. Safety Related Pipe Supports - 90%.
- c. NSSS Component Supports - 70%.

- d. Electrical Installation Documentation Review - 55%.
- e. Quality Control Inspector Reinspection Program has been placed on hold.
- f. Reinspection of Safety Related Mechanical Equipment - 50%
- g. HVAC Welding, configuration, stiffeners, fittings - 50%.
- h. Piping Heat Number Traceability - 50%.
- i. Instrumentation Installation Verification - 30%

V. PROBLEMS/DISCREPENCY FINDINGS

A. Implementation Problems

No specific implementation problems were experienced during this period.

B. Discrepancy Findings

As reported in Section IV a total of 765 observation reports have been written as of December 31, 1984. Of these the review for validity has been completed on 365. Of these, 332 have been determined to be valid discrepancies and have been forwarded to Sargent & Lundy for review for design significance.

To date S&L has not identified any discrepancy as design significant.

VI. RECOMMENDATIONS

No specific recommendations are offered at this time.

N. N. Kaushal

N. N. Kaushal
BCAP Director