

50-329
50-330

CONSUMERS POWER COMPANY
MIDLAND ENERGY CENTER

DMB

Transmittal No: CSC-7716

Date: May 4, 1984

To: Stone & Webster
P G Box 1963
Midland, MI 48640

Attached Is: ☐ Partial Response To
☒ Complete Response To
☐ For Your Information
☐ Other

PRINCIPAL STAFF			
RA	<input checked="" type="checkbox"/>	SDPRP	
D/RA		DE	
A/RA		DRMSP	
RC		DRMA	
PAO		SCS	
SGA		M	
ENF		File	Das

✓ Knight 3

Description: Tracked Action Item 074.

Signature: *NI Reichel*

cc: JGKeppler, NRC Region III w/a
JHarrison, NRC Region III w/a
RJCook, NRC Site w/a
RAWells, MPQAD w/a
BHPeck, MEC w/a
NIREichel, MEC w/a
DDJohnson, MEC w/a

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PDR ADOCK 05000329
S PDR

1001
MAY 9 1984

ITEM/HOLD POINT NOTIFICATION FORM

Sheet 1 of 2

STONE & WEBSTER CONSTRUCTION IMPLEMENTATION OVERVIEW MIDLAND NUCLEAR PLANT J.O. NO. 14509	ITEM NUMBER <i>C 74</i>	HOLD POINT NUMBER <i>N/A</i>
REFERENCE(S) NIR's 22,23,24,25,26 & 27		

<input checked="" type="checkbox"/> TRACKED ACTION ITEM <input type="checkbox"/> TRACKED INFORMATION ITEM <input type="checkbox"/> TRACKED RECOMMENDATION ITEM <input type="checkbox"/> UNTRACKED ITEM <input type="checkbox"/> HOLD POINT NOTIFICATION

CONDITION DETAILS

During the period of March 19 to April 3, 1984, CIO conducted an in process evaluation of the site document control program which included the corrective action related to CIO Item Number 043 and concerns expressed to CIO by a CPCo employee. Specific discrepancies noted are contained in the referenced NIR's. Additionally, the following general concerns resulted from the evaluation:

1. The document control program is very complex and problems currently being experienced are exaggerated by:
 - a. The number of design changes being generated.
 - b. The number of different vehicles for making design changes and for updating design documents.
 - c. The number of different document types that are being issued.

(Continued on Sheet 2)

(PAGE NO'S)
☒ YES ☐ NO

ATTACHMENTS

DATE RESPONSE REQ'D. <i>4-30-84</i>	INITIATOR/DATE <i>Richard Scallan 4/13/84</i>	INITIATION APPROVED/DATE <i>J E Kan 4-13-84</i>
--	--	--

RESPONSE (SEE NOTE)

Response sent by our Letter CSC-7704 dated April 30, 1984.

(PAGE NO'S)
☐ YES ☐ NO

ATTACHMENTS

EST. CORRECTIVE ACTION COMPLETION DATE <i>NA</i>	RESPONDENT <i>[Signature]</i>	TITLE <i>Const Supt</i>	DATE <i>5/9/84</i>
RESPONSE ACCEPTED	DATE	RESPONSE VERIFIED/CLOSED	DATE

NOTE - FOR TRACKED ACTION ITEMS ONLY, EXPLAIN CLEARLY OR REFERENCE ATTACHMENTS FOR:

1) CAUSE OF OBSERVED CONDITION 2) CORRECTIVE ACTION TAKEN 3) PREVENTIVE ACTION TAKEN

500-003(CN)

Condition Details (Cont.)

- d. The total volume of documents issued or available from previous issues.
2. Training of personnel handling and using documents has not been extensive enough to prevent errors in document issues, control or use.
3. Present implementation of the field drawing revision systems can lead to hardware deficiencies which would not be identified in the field.
4. MPQAD must more aggressively monitor the document distribution and control process of discrepancies are to be identified and corrected.
5. Complete implementation of system 38 and a reduction in the log time between document receipt and issue should be pursued expeditiously to decrease the discrepancies between document register listings of current documents and those available to users and to maintain consistency between Field Document Control Center and Document Control Stations.
6. A walkdown of various plant buildings identified the attached lists of discrepant documents. No determination could be made of whether the documents were in use or not since personnel were not available for comment. However, having these documents in work locations could easily lead to their use for plan work.

Although many of the discrepancies noted by CIO were in areas that are Non Q, the same documents and document control process are used for Q work. Therefore it is important that corrective action be implemented prior to initiation of CCP Phase II work.

Please advise CIO of the actions CPCo is taking or intends to take to address these issues identified above.

WALK-DOWN TURBINE BUILDING

Item 074
Attachment I
Page 1 of 4

	DOCUMENT	REV.	COMMENTS
1.	M0604 SH 8	12	FCN M03169 incorporated in Rev. 11 but still shown on register.
2.	M0603 SH 17	8	FCN M0 3267 incorporated in Rev. 6 but still shown on register.
3.	FSK 2-632-11-23	0	FCN M20247 not shown on FDCC outstanding amendment stamp but was in CWP.
4.	C-735	4	FCR C5004 listed in wrong block (in FCN block) on FDCC outstanding amendment stamp.
5.	C-733	29	FCN C5004 was attached, however the register shows no issue date.
6.	FSK-M-OGBD-205-2-H24	3	DWG was stamped "Uncontrolled Not To Be Used for Construction". Work being performed was hanger modification. No attachment stamp on the drawing. IDCN 12379 had CGSO work print stamp.
7.	FSK-M-OGBD-205-2-H16	2	DWG was stamped "Uncontrolled Not To Be Used for Construction". Work being performed was hanger modification. No attachment stamp on the drawing. IDCN 12378 had CGSO work print stamp.
8.	FSK-M-OGBD-205-2-H5	3	DWG was stamped "Uncontrolled Not To Be Used for Construction". Work being performed was hanger modification. No attachment stamp on the drawing. IDCN 12376 had CGSO work print stamp.
9.	FSK-M-OGBD 205-2-H6	3	DWG was stamped "Uncontrolled Not To Be Used for Construction". Work being performed was hanger modification. No attachment stamp on the drawing. IDCN 12377 had CGSO work print stamp.
10.	FSK-M-OGBD 205-3-H8	3	DWG was stamped "Uncontrolled Not To Be Used for Construction". Work being performed was hanger modification. No attachment stamp on the drawing. IDCN 11914 had CGSO work print stamp.
11.	J-203A-71-13	submittal 13	Register shows IDCN 23995 but not listed and attached to drawing.
12.	E-391 SH4	3	Marked voided and was found with the work-package.
13.	A-20	?	Revision block illegible, register shows Rev. 22

	DOCUMENT	REV.	COMMENTS
14.	C-732	22	Register shows DCN #16 but not attached to the drawing.
15.	C-404 SH 6	?	Revision block torn-off.
16.	C-733	29	Register shows FCN C-5002 but not attached to the drawing.
17.	C-735	4	Copy of a FCN attached to the drawing without the FCN number, dated 3-9-84. (Team #29)

WALK-DOWN TURBINE BUILDING

Item 074
Attachment I
Page 3 of 4

	DOCUMENT	REV.	REG.	COMMENTS
			REV.	
18	E675 SH 1	28	29	OUT OF REV.
19	A-17	18	19	OUT OF REV.
20	E682 SH1	24	25	OUT OF REV.
21	C-732	20	22	OUT OF REV.
22	E-685 SH1	15	16	OUT OF REV.
23	E-654	16	17	OUT OF REV.
24	E-679 SH1	34	35	OUT OF REV.
25	E-679 SH2	10	11	OUT OF REV.
26	C-3161 SH7	0	1	OUT OF REV.
27	E-681 SH1	26	27	OUT OF REV.
28	C-3161 SH4	0	1	OUT OF REV.
29	E-683 SH1	24	25	OUT OF REV.
30	C-878	16	17	OUT OF REV.
31	E-684 SH1	20	21	OUT OF REV.
32	FSK-J0-0072 SH1	6	5	OUT OF REV.
33	SK-2-632-4-4	S03	1/f1 B0	OUT OF REV.
34	FSK-JC2-0100 SH4	1	2	OUT OF REV.
35	E-680 SH1	27		Register shows FCN-E-301 but not attached to the drawing.
36	E-583 SH1	13		Register shows IDCN 21820 but not attached to the drawing.
37	J-203A-82-13	submittal 13		Register shows IDCN 24056 but not attached to the drawing.
38	J-203A-85-11	submittal 11		Register shows IDCN 24058 but not attached to the drawing.
39	J-203A-70-11	submittal 11		Register shows IDCN's 21956 & 23994 but not attached to the drawing.
40	J-203A-69-13	submittal 13		Register shows IDCN 23993 but not attached to the drawing.
	<u>WALK-DOWN INSIDE CONTAINMENT</u>			
41	FSK-JC2-0084 SH2	1	3	Drawing stamped controlled in red, and there was an old work print stamp on the drawing.
42	FSK-JC2-0090	0	2	Drawing stamped controlled in red.
43	FSK-JC2-0085 SH 2	1	2	Drawing stamped "Workprint" as well as "Void" in red.

WALK-DOWN TURBINE BUILDING

Item 074
Attachment I
Page 4 of 4

	DOCUMENT	REV.	REG.	COMMENTS
			REV.	
44	FSK-JC2-0091	0	2	Drawing stamped "Workprint" as well as "Void" in red.
45	C-1043	7	7	DCN #5 & 6 not attached however, DCN #5 & 6 were listed in front of drawing.
46	E-750 SH1	-	-	No status stamp on the drawing.
	<u>WALK-DOWN DOCUMENT CONTROL CENTER STATION #503</u>			
47	M 0410	18	18	Register dated 3/1/84 shows five change documents as currently outstanding, however, rev. 18 has them as being incorporated (July 83)
48	M-483-3A	11		FCN-M-5749 was stamped uncontrolled as attached to the controlled DWG (M-483-3A)
	<u>WALK-DOWN SERVICE WATER PUMP-HOUSE</u>			
49	C-805	16	16	Register indicates that DCN #11 should be attached to drawing. DCN #11 not attached to drawing. Drawing was partially illegible.
	<u>STATION NO 503</u>			
50	M-438-3A	11	11	Drawing stamped "Controlled" with FCN M-5749 attached and stamped

Drawing M-480 Rev 18 was evaluated at Stations 59, 309, 501, & 503. The Drawing differed at each Station as follows:

ATTACHMENTS

<u>STATION #</u>	<u>ATTACHED/SHOULD NOT BE</u>	<u>NOT ATTACHED/SHOULD BE</u>
309	<u>IDCN's</u> 23061 & 23063	<u>FCR</u> M-10283
503	<u>FCR</u> M-7044	<u>FCR's</u> M-10157, M-10196, M-10796, M-10283
	<u>IDCN's</u> 23061 & 23063	<u>IDCN</u> 24776
501		<u>FCR's</u> M-10157, M-10196 M-10796, M-10283
59	All Attachments are OK however, the copy they use for control is not stamped "Controlled".	

The attachments shown in the 3-26-84 register are all current, however, the extreme right hand column "Process Distr" does not have the date of distribution of all these documents. Also the date column to the left of this column is supposed to reflect the date the attachments were received at DCC- All these dates do not appear either.

59 LINE 5000
9/5/11

NOT STAMPED CONTAINER
DRAWING -- M-480 REV. - 18

55

FDCC OUTSTANDING AMENDMENT		DCN	FCR	FCN
Other	CGSO			
CON	CON			
NOT TO BE USED				
CONSTRUCTION				

[illegible]

FDIC OUTSTANDING AMENDMENT						
Other	CGSO		IDCN	DCN	FCR	FCN
	FCN	FCR				
		1031	3891	32	116422	11734
		1031	4132	33	117463	112395
		1032	4815	34	115801	112397
			20312		110137	113655
			20533		110292	
			20548		110157	
			20601		110196	
			20737		110776	

[illegible][illegible]

FDIC OUTSTANDING AMENDMENT							
Other	QGSO		IDCN	DCN	FCR	FCN	
	FCN	FCR					
			31213				
			21270			110282	
			74612				
			56617				
			67682				
			07326				
			22522				
			36822				
			22522				
			22963				

[illegible][illegible]

FDCC OUTSTANDING AMENDMENT						
Other	CGSO		IDCN	DCN	FCR	FCH
	FCN	FCR				
			22981			
			23013			
			23049			
			23050			
			23058			
			23059			
			23060			
			23061			

[illegible][illegible]

FDIC OUTSTANDING AMENDMENT						
OTHER	CGSO		IDCN	DCN	FCR	FCN
	FCN	FCR				
			2302			
			2302			
			2342			
			2350			
			2352			
			2374			
			2412			
			2422			

Two 70CN should be removed Item 074

ATTACHMENT II
Page 3 of 7
Station #309

DRAWING - 11-480 REV. - 18

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN
				21152		
				21571		
				21776		

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN
				3311	32	214734
				4132	33	215395
				4815	34	212497
				20372		213635
				20333		
				20518		
				20601		
				20937		

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN
				21213		
				21290		
				21734		
				21895		
				23329		
				23520		
				22875		
				22952		

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN
				22981		
				22013		
				23049		
				23050		
				23058		
				21059		
				21060		
				21061		

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	FCN	FCR	IDCN	DCN	FCN
				23041		
				21063		
				21192		
				23150		
				23152		
				23154		
				24192		
				24193		

Item 074
Kissing 3 FCR
Plus, an addition of 1 FCR that
and other actions were
ATTACHMENT II
PAGE 4 of 7
STATION # 603

DRAWING F-11-430 REV.-18

FDOC OUTSTANDING AMENDMENT						
Other	CGSO	IDCN	DCN	FCR	FCN	
	FCN	3371	33	116422	114738	
	1031	4132	33	17462	25395	
	1032	4815	34	15801	112499	
		20302		110132	113615	
		20533		111023		
		20518		112044		
		20601				
		20717				

FDOC OUTSTANDING AMENDMENT						
Other	CGSO		IDCN	QCN	FCR	FCN
	FCN	FCR				
—	—	—	21213	—	—	—
—	—	—	21210	—	—	—
—	—	—	21231	—	—	—
—	—	—	21915	—	—	—
—	—	—	22319	—	—	—
—	—	—	22810	—	—	—
—	—	—	22895	—	—	—
—	—	—	22452	—	—	—

FDIC OUTSTANDING AMENDMENT						
Other	CGSO		IDCN	DCN	FCR	FCN
	FCN	FCR				
—			22981	—	—	—
—			25013	—	—	—
—			25019	—	—	—
—			25050	—	—	—
—			25058	—	—	—
—			25059	—	—	—
—			25060	—	—	—
—			25061	—	—	—

Other	CGSO		IDCN	DCN	FCR	FCN
	FCN	FCR				
			23062			
			24063			
			33472			
			33450			
			33452			
			33444			
			34192			

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PROJECT NAME: MIDLAND
PROJECT NO: 7220-001
DDRPRNTG

BECHTEL POWER CORPORATION
DESIGN DOCUMENT REGISTER
MECHANICAL DESIGN DOCUMENTS

DATE: 26MR84

PAGE: 13

PAGE BREAK: 4

*****DOCUMENT***** **REVISION/AMENDMENT** ***HOME OFFICE APPROVAL***** **AMENDMENT INCORP***** **FIELD PROCESS**

TYPE	NUMBER	SHT#	TYPE	NUMBER	RV	RRV	DATE	R DATE	COMMENT S	DATE	REV	OTHER REF	DATE	S	DISTR
MA	MO47R		1B CONTINUED: RSHT 00001	001			130C83		A				270C83	K	
PRCS	STEAM RAD MONITORING		SYSTEM PIPING & INSTR DIAG						RD J					K 831027	
MA	MO47B	2	REV 004 RSHT 00004				130C83 R 004 130C83		015428F A A				270C83	K	
PRCS	STEAM RAD MONITORING		SYSTEM PIPING & INSTR DIAG						RD J					K 830216	
MA	MO47B	3	REV 002 RSHT 00002				07FE83 R 002 07FE83		011860F A A				16FE83	K	
PRCS	STEAM RAD MONITORING		SYSTEM PIPING & INSTR DIAG						RD J					K 830216	
MA	MO47B	4	REV 003 RSHT 00003				07FE83 R 003 07FE83		011860F A A				16FE83	K	
PP & INSTR DIAG PLANT RADN	MONITORING SYS AIRBORNE MON								RD J Q					E	M
MA	MO479	1	REV 005 RSHT 00005				07MR84 005 07MR84	19MR84	AO10961F A A				19MR84	K	
PP & INSTR DIAG PLANT RAD	MONITORING SYS AIRBORNE MON								RD J					E	M
MA	MO479	2	REV 005 RSHT 00005				07MR84 005 07MR84	19MR84	AO10961F A A				19MR84	K	
PP & INSTR DIAG PLANT RAD	MONITORING SYS AIRBORNE MON								RD J					E	M
MA	MO479	3	REV 004 RSHT 00004				07MR84 004 07MR84	19MR84	AO10961F A A				19MR84	K	
PP & INSTR DIAG PLANT RAD	MONITORING SYS AIRBORNE MON								RD J					E	M
MA	MO479	4	REV 004 RSHT 00004				07MR84 004 07MR84	19MR84	AO10961F A A				19MR84	K	
PP & INSTR DIAG PLANT RAD	MONITORING SYS LIQUID MON								RD J					E	M
MA	MO479	5	REV 003 RSHT 00003				07MR84 003 07MR84	19MR84	AO10961F A A				19MR84	K	
PP & INSTR DIAG PLANT RAD	MONITORING SYS LIQUID MON								RD J					E	M
MA	MO479	6	REV 003 RSHT 00003				07MR84 003 07MR84	19MR84	AO10961F A A				19MR84	K	
PP & INSTR DIAG PLANT RAD	MONITORING SYS LIQUID MON								RD J					E	M
MA	MO479	7	REV 003 IDCN 01087 IDCN 01088 IDCN 22203 RSHT 00003				07MR84 001 11JA82 001 11JA82 001 190C83 003 07MR84	19MR84	AO10961F A D D D A				19MR84	K	
											REV 002		18JL83	K	
											REV 002		18JL83	K	
											REV 002		11N083	K	
														K	
PIPING CLASS SUMMARY SHEET									RD M Q					K 840307	M
MB	MO480		REV 018 DCN- 00032 DCN- 00033 DCN- 00034 FCN MO4734 FCN MO5395 FCN M12499 FCN M13685				14JA84 R 17JA84 18 20JA84 31JA84 018 20JA84 31JA84 018 27FE84 05MR84	17JA84	A12567F A A A 840316 A P P P A				01FE84	K 840307	
													01FE84	K 840307	
													05MR84	K 840315	
														K	
														K	
														K	
													15MR84	K 840327	

59
601
603



Consumers
Power
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

File: B1.1.7, 0655

UFI: 99*08

Serial: CSC-7704

April 30, 1984

Mr. J. E. Karr
Stone and Webster Michigan, Inc.
P.O. Box 1963
Midland, MI 48640

MIDLAND ENERGY CENTER GWO7020
STONE AND WEBSTER CONSTRUCTION IMPLEMENTATION OVERVIEW
ITEM NO. 074 DATED 4-13-84

In pursuance of your Open Item Number 074, a response is attached to address your concerns delineated in your item notification form. This also provides an updated response to tracked Open Item Number 043 in reference to Document Control Distribution Back Log.

Should you or your staff have any questions on the content, contact Lonnie Worley at extension 7707.

DLQ/LWW/jld

cc: DDJohnson
BHPeck
NIREichel
TASpelman
JBKeppler, Regional Administrator, Region III
JJHarrison, Chief, Midland Section, Region III
BBurgess, NRC Resident Inspector
RAWells, MPQAD

Many of the concerns expressed in this "Item/Hold Point Notification" were previously identified as part of the document control corrective action plan, the Bechtel self appraisal team (SAT) analysis, and various engineering initiatives underway in both the "SAT" review and in previous management presentations. Implementation of several items are currently in process with the remaining in review and/or forthcoming.

The following items address each of the concerns identified:

1. Corrective action in identified areas will reduce the complexity of the document control program. Items identified below will enhance document control program understanding by all organizations.
 - a. During the week of March 14, a constructibility/instructibility review was performed consisting of representatives from Resident Engineering, Field Engineering, and MPQAD. This review consisted of an in-depth look at the present design documents and Project Quality Control Instructions (PQCI's). The review determined that present design are constructible and that the PQCI's are verifiable for the completion of constructions activities. Based on the above review, we have confidence that future design changes will be minimized.
 - b. The number of the different vehicles being utilized for making design changes and for updating design documents is currently being reviewed and evaluated.
 - c. Bechtel and CPCo are reviewing the different document types being used on the project with a goal of reducing the number to a minimum number and clearly defining the use of each. This review is part of the corrective action plan. It is important to remember that the number of different document types being issued will be reduced as different scopes of work permit. The need for SAPs will be eliminated after Phase I of the CCP is complete. At the commencement of Phase II, work prints will be the primary document utilized for field installations.
 - d. In order to reduce the volume of documents issued or available from previous issues, the field has been purged for the following types of drawings/documents:
 - 1) Old work prints
 - 2) Drawings/documents no longer being utilized
 - 3) Drawings/documents not required
2. Training of field personnel on document control issues, control or use will consist of the following:

Training of Field Engineers/Other Users

Document control orientation sessions will be conducted during May to familiarize jobsite personnel with the document control process, controls, and tools (registers, forms, etc).

Training of personnel on the use of the System 38 terminals for DDR access will be conducted during May.

Training of Document Control Personnel

The applicable processing personnel in document control have been trained on System 38. These training sessions began in August 1983 and is an ongoing activity as new hires are indoctrinated.

Several changes have been implemented within the document control organization to increase the overall training within the group:

- a. Five experienced document control supervisors have been added to the staff within the past 2 months. Additional supervisors were added earlier beginning in September 1983.
- b. The number of coordinators have been increased in all areas.
- c. Training programs for specific areas are being prepared as part of the corrective action plan.

With the increase in supervisors and coordinators, more on-the-job training will be accomplished.

The Internal Audit Group will be monitoring the processing activities performed by the document control personnel for compliance to procedures. This will be another resource which can be utilized to identify any training problems.

3. A system of checks and balances are provided in the requirements of the CCP to assure that all installations are completed to the latest engineering criteria.
 - a. Prior to commencement of physical work in Phase II of the CCP, the latest criteria is again verified against the status assessment prints to determine if additional design changes have been made.
 - b. Additionally, during Phase II of CCP, the final installed system will be inspected by MPQAD-QC for acceptability to the latest design criteria.
 - c. As a final check, prior to system turnover, the system is walked down to verify that the system is complete and in accordance to the latest design criteria.

Document control and engineering has assurance through the checks and balances identified above that any deficiencies will be identified.

4. MPQAD is monitoring the document distribution and control process more aggressively.

MPQAD has increased its role in the document control areas as follows:

Increase concentration on process through:

- a. Implementing the Document Control Assurance Group
- b. Increasing in-process audits
- c. Formal releases of satellite stations
- d. Augmented corrective action plan

The Document Control Assurance Group will:

- a. Maximize MPQAD involvement in FDCC process and corrective action plans
- b. Provide on-going checks and feedback on system
- c. Maximize checks on correct document use

Formal release of satellite stations:

- a. MPQAD will approve and release satellite station for Q-related activities by written notice.

The augmented corrective action plan was a result of the Document Control Task Force represented by SMO and MPQAD. The augmented corrective action plan reprioritized document control priorities and accelerated various activities within the short- and long-term corrective action plan. The augmented corrective action plan is as follows:

- a. Eliminate "old" work prints by April 13, 1984. (Completed)
 - b. Evaluate the number and types of drawings and define their purpose by April 20, 1984. (Evaluation in approval cycle)
 - c. Clarify instructions for drawing use by external jobsite groups by April 27, 1984.
 - d. Review all document control procedures for completeness, consistency, and consolidate to a practical degree by June 1, 1984.
 - e. Eliminate backlog by May 1, 1984. (Completed)
 - f. Develop a plan for incorporating construction assistants into document control and review management and supervision of the work print group by April 16, 1984. (Plan in approval cycle)
 - g. New schedule and scope for satellite stations including collapse of all current work print stations into same by May 1, 1984. (Plan is ready for issue)
5. The complete implementation of the System 38 is tentatively scheduled for July 1984.

The existing backlog within the Document Control Center is scheduled to be worked off by May 1, 1984.

6. Five main satellite stations containing controlled drawings and work prints are currently being established by the Document Control Center. The forecasted completion for controlled drawings is mid-May. Work prints are scheduled for incorporation by mid-June. Trained document control personnel will be located at each station for the purpose of maintaining the station and in providing assistance to those individuals utilizing the station. Therefore, construction personnel will be able to utilize the controlled documentation in those areas to verify they are working with the latest design criteria.