

QUALITY CONFIRMATION PROGRAM

STATUS

(AS OF APRIL 30, 1982)

by

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THE GOAL OF THE QUALITY CONFIRMATION PROGRAM IS TO  
CONFIRM THE QUALITY OF CONSTRUCTION OF THE WM. H.  
ZIMMER NUCLEAR POWER STATION AND TO ENSURE THAT ANY  
DEFICIENCIES ARE PROPERLY ADDRESSED THROUGH ENGIN-  
EERING EVALUATION, ANALYSIS, OR REWORK.

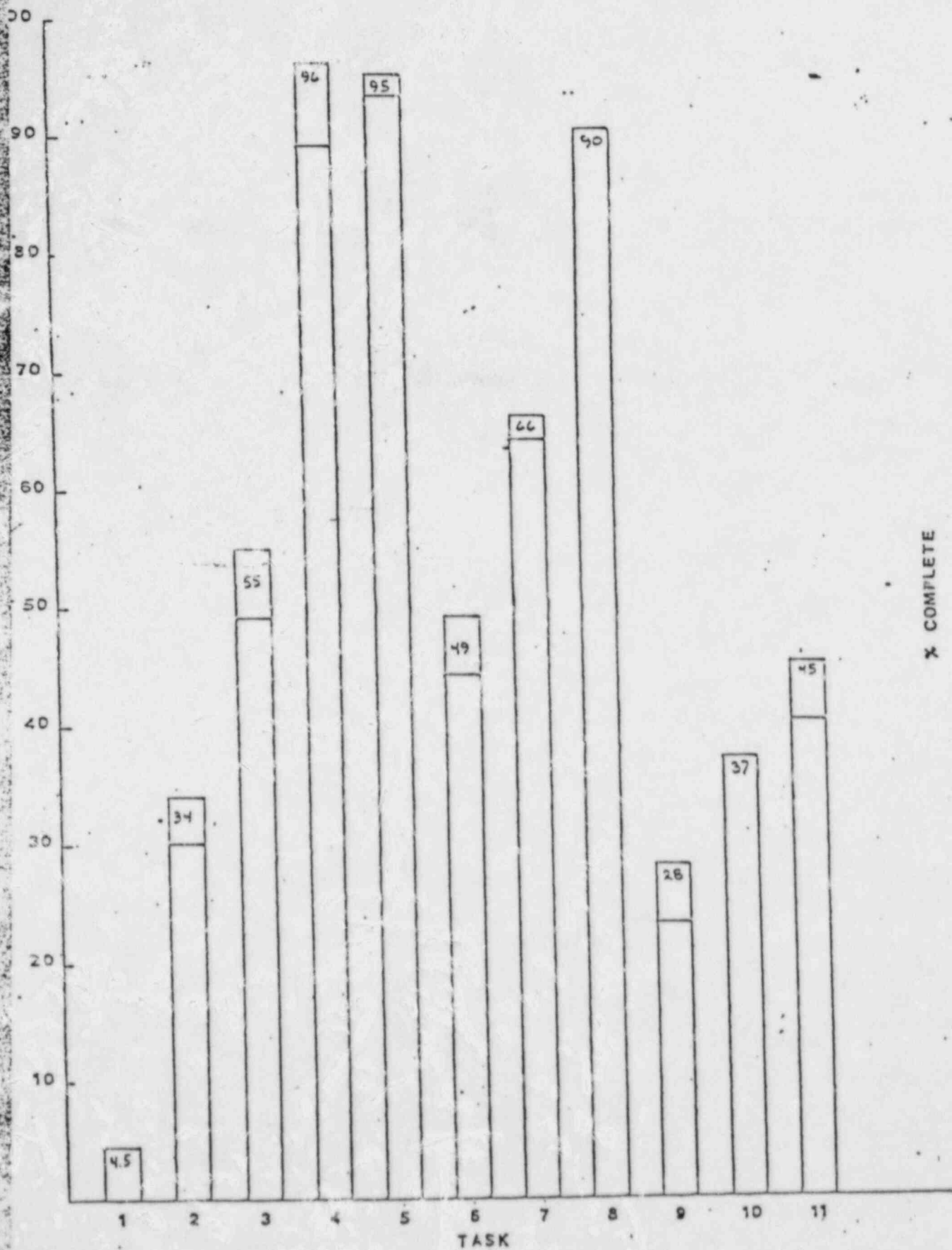
# QCP MANPOWER SUMMARY

ADMINISTRATION .....	2
ENGINEERS.....	12
QUALITY ENGINEERS.....	12½
INSPECTORS.....	18
DOCUMENT REVIEWERS.....	19½
CLERKS.....	4
COMPUTER SUPPORT.....	5
TOTAL.....	73

SUMMARY OF THE

QUALITY CONFIRMATION PROGRAM TASKS

- I. STRUCTURAL STEEL
- II. WELD QUALITY
- III. HEAT NUMBER TRACEABILITY
- IV. SOCKET WELD FITUP
- V. RADIOGRAPHS
- VI. CABLE SEPARATION
- VII. NONCONFORMANCES
- VIII. DESIGN CONTROL AND VERIFICATION
- IX. DESIGN DOCUMENT CHANGES
- X. SUBCONTRACTOR QA PROGRAMS
- XI. AUDITS



## TASK 1: STRUCTURAL STEEL

### SUMMARY OF TASK

1. SOME NONCONFORMING WELDS HAVE BEEN IDENTIFIED
2. SOME WELDS WERE PAINTED PRIOR TO INSPECTION
3. SOME BEAMS HAVE NONCONFORMING RE-ENTRANT INSPECTION
4. SOME BEAMS INSTALLED BUT NOT SHOWN ON DESIGN DRAWINGS
5. BEAMS RECEIVED FROM UNAPPROVED VENDOR
6. HEAT NUMBER TRACEABILITY HAS NOT BEEN MAINTAINED FOR SOME BEAMS AND STEEL PLATE
7. CABLE TRAY FOOT CONNECTIONS HAVE BEEN INSPECTED

### ASSESSMENT/RESULTS

- I. 1685 NONCONFORMANCE REPORTS WERE WRITTEN IDENTIFYING 7170 DEFICIENCIES. THE MOST COMMON DEFICIENCIES REPORTED INCLUDE SLAG, ARC STRIKES, UNDERCUT, IMPROPER WELD SIZE, AND OVERLAP. THESE NONCONFORMANCE REPORTS WERE REVIEWED TO DETERMINE VALIDITY OF REPORTED DEFICIENCIES. DUE TO INCONSISTENCIES FOUND IN THE INITIAL INSPECTIONS, TASK 1 INSPECTIONS WERE STOPPED 4/8/82.
- II. PROCEDURE 19-QA-06 REVISED TO INCLUDE NEW AND CLARIFIED INSPECTION CRITERIA. FINAL REVIEW AND APPROVAL SCHEDULED 5/4/82.
- III. PROCEDURE 19-QA-28 WRITTEN TO COVER REINSPECTION AND REWORK OF STRUCTURAL STEEL IN CONTROL ROOM. FINAL REVIEW AND APPROVAL SCHEDULED 5/7/82.
- IV. ALL TASK 1 INSPECTORS ARE RECEIVING ADDITIONAL TRAINING AND ARE DEMONSTRATING THEIR VISUAL WELD INSPECTION CAPABILITIES UNDER THE GUIDANCE OF AWS CERTIFIED WELDING INSPECTORS.

### MANPOWER SUMMARY

	<u>ACTUAL</u>
ENGINEERS	0
QUALITY ENGINEERS	5
INSPECTORS	9
DOCUMENT REVIEWERS	5
CLERKS	1
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TOTAL	20

TASK 1. - (C. T. D.)

SCOPE OF INSPECTION

<u>AREA</u>	<u>CONNECTIONS TO INSPECT</u>	<u>INSPECTIONS PERFORMED</u>
FOOT CONNECTIONS	259	259 (100%)
DRYWELL (LESS 525 EL.)	610	0
REACTOR & AUX. BLDG.		
SERVICE WATER BLDG.	5750	40 (0.6%)
TOTAL	6619	299 (4.5%)



# NONCONFORMANCE REPORT (NR) SUMMARY

AREA	NR'S WRITTEN	QUANTITY DEFICIENCIES IDENTIFIED *	NUMBER DEFICIENCIES DISPOSITIONED	TYPE OF DISPOSITION			
				ACCEPT AS IS	REWORK	REJECT	REPAIR
FOOT CONNECTIONS	253	975	242	139	88	0	15
DRY WELL (NOTE 1)	189	796	324	139	29	1	12
REACTOR & AUX. BLDGS (NOTES 1&2)	1243	5399	590	558	15	17	0
TOTAL	1685	7170	1156	979	132	18	27

\* MORE THAN ONE DEFICIENCY PER NR

## NOTES:

1. ALL EXISTING NR'S HAVE BEEN PLACED ON HOLD FOR REINSPECTION
2. NR Q-QAD-82-2222-E INITIATED FOR REINSPECTION AND REWORK OF ALL CONTROL ROOM BEAMS. 68 DEFICIENCIES REPORTED AFTER REINSPECTION OF 21 BEAMS - ALL DEFICIENCIES TO BE REWORKED.



## TASK II: WELD QUALITY

### SUMMARY OF TASK

1. IN-PROCESS INSPECTIONS WERE NOT PERFORMED FOR SOME WELDS
2. THERE ARE QUESTIONS AS TO WHETHER OR NOT FIELD WELDS HAVE BEEN MADE USING IMPROPER OR NONCONFORMING WELD ROD
3. WELD ROD HEAT NUMBERS HAVE BEEN TRANSFERRED TO THE WELD DATA SHEET (KE-1) BY INDIVIDUALS OTHER THAN THE QC INSPECTORS WHO INSPECTED THE WELD
4. WELD INSPECTION CRITERIA DELETED FROM WELD DATA SHEETS FROM APPROXIMATELY JULY 1980 TO FEBRUARY 1981.

### ASSESSMENT/RESULTS

- I. 92% OF THE INACTIVE WELDING PROCEDURES HAVE BEEN REVIEWED. APPROXIMATELY 5 PROCEDURES MAY NEED TO BE REQUALIFIED ON THE BASIS OF THIS REVIEW. (AMPERAGE RANGE EXCEEDED, INTERPASS TEMPERATURE NOT SPECIFIED, RATE OF TRAVEL NOT RECORDED, ETC.)
- II. REVIEW OF WELDER QUALIFICATIONS HAS BEGUN. GROUP OF HJK AND CG&E EXPERTS WORKING JOINTLY TO EXPEDITE THE REVIEW (9 PEOPLE). THERE ARE APPROXIMATELY 1800 WELDERS (APPROX. 4600 RECORDS) TO REVIEW. <sup>NRS HAVE BEEN</sup> 165 INITIATED, OF WHICH 45 ARE IN FINAL ENGINEERING DISPOSITION PROCESS. 550 WELDER QUALIFICATION FORMS (FOR 210 WELDERS) HAVE BEEN REVIEWED TO DATE.
- III. CANNOT TELL IF HEAT NUMBERS HAVE BEEN TRANSFERRED FROM KE-2 FORM TO KE-1 FORM BY SOMEONE OTHER THAN THE QC INSPECTOR WHO INSPECTED THE WELD. LOOKING FOR CROSS OUTS, WHITE OUT, ETC. WILL IDENTIFY DISCREPANCIES DURING FIELD WALKDOWN FOR RESOLUTION VIA DOCUMENT DEFICIENCY NOTICE (DDN) OR NONCONFORMANCE REPORT (NR) AS APPROPRIATE.
- IV. EVALUATING RESULTS OF REVIEW OF STRUCTURAL KE-1 CARDS (WELD DATA SHEETS). GENERIC NONCONFORMANCE REPORTS WILL BE WRITTEN AFTER DEFICIENCIES HAVE BEEN CLASSIFIED. DEFICIENCIES INCLUDE LACK OF WELD PROCEDURE VERIFICATION AND LACK OF WELDER QUALIFICATION VERIFICATION
- V. LISTING OF APPROXIMATELY 29,000 SMALL BORE PIPE WELDS HAVE BEEN IDENTIFIED FOR REVIEW.

TASK II - (CONT'D)

MANPOWER SUMMARY

	<u>ACTUAL</u>
ENGINEERS	1
QUALITY ENGINEERS	2
INSPECTORS	1
DOCUMENT REVIEWERS	1
CLERKS	1
	<hr/>
TOTAL	5

STATUS

THIS TASK IS APPROXIMATELY 34% COMPLETE (SCOPE OF WELDER QUALIFICATION  
REVIEW PROGRAM MUCH LARGER THAN EXPECTED)

ESTIMATED COMPLETION DATE

OCTOBER 31, 1982

## TASK III: HEAT NUMBER TRACEABILITY

### SUMMARY OF CONCERNS

1. SOME HEAT NUMBERS FOUND ON INSTALLED SMALL BORE PIPING DO NOT APPEAR ON THE RECORDS OF ACCEPTED HEAT NUMBERS
- 2A. SOME HEAT NUMBERS RECORDED ON ISOMETRIC DRAWINGS DO NOT MATCH THE HEAT NUMBERS ON INSTALLED PIPING
- 2B. SOME HEAT NUMBERS RECORDED ON THE ISOMETRIC DRAWINGS HAD BEEN MARKED OUT AND INCORRECT HEAT NUMBERS RECORDED.
3. HEAT NUMBERS COULD NOT BE FOUND ON SOME INSTALLED SMALL BORE PIPING

### ASSESSMENT/RESULTS

- I. HEAT NUMBER RECORDS ARE BEING VERIFIED AGAINST CERTIFIED MATERIAL TEST REPORTS. VERIFIED LIST OF HEAT NUMBERS WILL BE USED IN THE REVIEW OF ISOMETRIC DRAWINGS AND FIELD INSPECTION RESULTS  
OVER 1900 DRAWINGS HAVE BEEN REVIEWED. TRACEABILITY DEFICIENCIES (MISSING HEAT NUMBERS) HAVE BEEN IDENTIFIED ON APPROXIMATELY 20% OF THE DRAWINGS.
- II. ASME CODE ALLOWS HEAT NUMBERS TO BE RECORDED ON PIPE OR ON RECORDS DIRECTLY TRACEABLE TO THE PIPE. IF THE HEAT NUMBER IS ON THE PIPE OR ON RECORDS TRACEABLE TO THE PIPE, NO REWORK IS NECESSARY. THIS ITEM IS BEING ADDRESSED BY DOCUMENT REVIEWS AND FIELD INSPECTION
- III. SMALL BORE PIPE:  
2488 DRAWINGS HAVE BEEN REVIEWED TO DATE OUT OF A TOTAL OF 2615. FOR THE MONTH OF APRIL 14 DRAWINGS WERE REVIEWED. APPROXIMATELY 20% OF THE DRAWINGS CONTAIN HEAT NUMBER DEFICIENCIES. NONCONFORMANCE REPORTS OR DOCUMENT DEFICIENCY NOTICES ARE BEING GENERATED.  
SINCE PROBLEMS HAVE BEEN IDENTIFIED WITH LIST 'A' (ESSENTIAL) SYSTEMS, A 100% REVIEW OF LIST B (IMPORTANT TO SAFETY) SYSTEMS WILL BE PERFORMED.
- IV. LARGE BORE PIPE:  
DUE TO PROBLEMS IN OBTAINING PROPER DRAWINGS AND DOCUMENTATION THIS ACTIVITY HAS STARTED OVER. A LIST OF WELDS AND WELD DATA SHEETS HAS BEEN OBTAINED FROM HJK WELDING. THIS LIST WILL SIMPLIFY THE REVIEW OF THE DOCUMENTATION.

TASK 111 - (CONT'D)

MANY SPOOL PIECES FROM M.W. KELLOGG (PULLMAN) HAVE BEEN MODIFIED IN THE FIELD. THESE SPOOL\$ PIECES WERE SENT WITH AN NPP-1 CODE DATA FROM INDICATING ANI REVIEW OF MATERIAL AND DOCUMENTATION. A POTENTIAL PROBLEM EXISTS IF THE MODIFICATIONS WERE NOT PROPERLY DOCUMENTED (I.E. HEAT NUMBERS OR MARK NUMBERS TRANSFERRED, MATERIAL FROM ONE SPOOL REPLACED BY A PIECE FROM ANOTHER SPOOL, ETC.) THIS POTENTIAL PROBLEM IS BEING EVALUATED.

V. PURCHASE ORDER REVIEW:

A TOTAL OF 3206 PURCHASE ORDERS OUT OF 6792 HAVE BEEN REVEIWD. 983 HAVE BEEN REVIEWED THIS MONTH. THE CG&E VENDOR AUDIT GROUP WILL DETERMINE IF VENDORS WERE OR CAN BE APPROVED. DEFICIENCIES INCLUDE UNSIGNED CERTIFIED MATERIAL TEST REPORTS AND NONESSENTIAL MATERIAL (VENDORS NOT APPROVED TO SUPPLY ESSENTIAL MATERIAL) BEING UPGRADED TO ESSENTIAL.

MANPOWER SUMMARY

	<u>ACTUAL</u>
ENGINEERS	1
QUALITY ENGINEERS	3
INSPECTORS	2
DOCUMENT REVIEWERS	7
CLERKS	1
	<hr/>
TOTAL	14

THIS TASK IS 55% COMPLETE.

ESTIMATED COMPLETION DATE

OCTOBER 6, 1982

## TASK IV: SOCKET WELD FITUP

### SUMMARY OF CONCERNS

SOCKET WELD FITUP TO ASSURE DISENGAGEMENT WAS NOT  
VERIFIED ON SOME SMALL BORE PIPING

### ASSESSMENT/RESULTS

- I. RECORDS FOR 28,277 WELDS OUT OF A TOTAL OF 29,486 HAVE BEEN  
REVIEWED. DUE TO REVISIONS OF THE PIPING LINES, APPROXIMATELY  
57,034 WELD RECORDS HAD TO BE REVIEWED TO COMPLETELY ADDRESS  
THE 28,277 WELDS REVIEWED TO DATE.
- II. 457 WELDS LACKED EVIDENCE OF DISENGAGEMENT AND HAVE BEEN RADIOGRAPHED.
- III. 73 OF THE 45<sup>7</sup> WELDS APPEAR TO LACK DISENGAGEMENT FROM RADIOGRAPH REVIEW.

### NONCONFORMANCE REPORT SUMMARY

56 NONCONFORMANCE REPORTS HAVE BEEN GENERATED FOR THE 73 WELDS.

NO ENGINEERING DISPOSITION FOR THE NONCONFORMANCE REPORTS RECEIVED TO DATE.

### MANPOWER SUMMARY

#### ACTUAL

ENGINEERS

$\frac{1}{2}$

QUALITY ENGINEERS

$\frac{1}{2}$

INSPECTORS

--

DOCUMENT REVIEWER

1 $\frac{1}{2}$

CLERKS

$\frac{1}{2}$

TOTAL

3

CG&E LEVEL III RADIOGRAPHER IS ALSO PROVIDING SUPPORT  
(NOT INCLUDED ABOVE)

### STATUS

THIS TASK IS APPROXIMATELY 96% COMPLETE

### ESTIMATED COMPLETION DATE

AUGUST 13, 1982



## TASK V: RADIOGRAPHS

### SUMMARY OF CONCERNS

THE RADIOGRAPH TECHNIQUE USED BY M.W. KELLOGG ALLEGEDLY DOES NOT MEET THE ASME CODE IN THAT THE PENETRANTERS (USED TO DETERMINE THE FILM QUALITY OF THE RADIOGRAPHS) WERE NOT ADEQUATELY SHIMMED.

### ASSESSMENT/RESULTS

- I. ALL RADIOGRAPHIC FILM FROM M.W. KELLOGG HAS BEEN REVIEWED (18,079 PIECES OF FILM FOR 4134 WELDS) FOR THE ABOVE CONDITION
- II. MOST RADIOGRAPHS DO MEET OTHER CODE REQUIREMENTS FOR QUALITY AND SENSITIVITY
- III. CODE INQUIRY BEING PREPARED FOR SUBMITTAL TO THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) FOR CLARIFICATION OF THE SHIMMING ISSUE
- IV. LIST OF WELDS FOR RADIOGRAPHY HAS BEEN SENT TO CONSTRUCTION OF 61 WELDS IDENTIFIED, 18 HAVE BEEN RADIOGRAPHED AND 12 ARE INACCESSIBLE.

### MANPOWER SUMMARY

PERSONNEL ASSIGNED TO TASK III WILL SUPPORT THIS ACTIVITY

### STATUS

THIS TASK IS APPROXIMATELY 95% COMPLETE

### ESTIMATED COMPLETION DATE

OCTOBER 4, 1982

## TASK VI: CABLE SEPARATION

### SUMMARY OF CONCERNS

1. THE NRC IDENTIFIED SIX EXAMPLES OF FAILURE TO MEET CABLE SEPARATION CRITERIA
2. VERIFY CABLE SEPARATION CRITERIA HAS BEEN MET

### ASSESSMENT/RESULTS

- I. RACEWAY ANALYSIS FOR ASSOCIATED CABLES COMPLETED BY S&L. LISTING OF ALL CABLES ANALYZED AND ACCEPTED TO BE FORWARDED TO CG&E.

#### II. A. SWITCHGEAR ROOMS

1. YELLOW.....100%
2. BLUE.....70%
3. GREEN.....100%
- B. CABLE SPREADING ROOM.....100%
- C. AUXILIARY EQUIPMENT ROOM.....100%
- D. CONTROL ROOM.....0%
- E. WALL PENETRATIONS & SLEEVES.....100%
- \*F. CLASS IE PANNELS (INCLUDING CABLES BETWEEN SPREADING ROOM & CONTROL ROOM.....4%
- G. ASSOCIATED CABLES.....100%
- \*H. HIGH ENERGY PIPING/MISSILE AREAS.....0%
- \*I. APPENDIX R (SHUTDOWN) CABLES .....0%
- J. REVIEW EER RESPONSES.....10%
- K. REVIEW S&L RACEWAY ANALYSIS/ADDITIONAL TRAINING.....0%

#### \* EXPANDED SCOPE OF TASK VI

- III. A TOTAL OF 466 NONCONFORMANCE REPORTS HAVE BEEN WRITTEN FOR SEPARATION, IDENTIFICATION AND ROUTING DEFICIENCIES. 106 NR'S DISPOSITIONED (65 REWORK, 41 ACCEPT AS IS). 45 OF THE 106 DISPOSITIONED NR'S HAVE BEEN CLOSED.



TASK VI - (CONT'D)

MANPOWER SUMMARY

	<u>ACTUAL</u>
ENGINEERS	5
QUALITY ENGINEERS	--
INSPECTORS	6
DOCUMENT REVIEWERS	--
CLERKS	<u>1</u>
TOTAL	11½

STATUS

49% COMPLETE (EXPANDED SCOPE)

ESTIMATED COMPLETION DATE

JULY 30, 1982 (EXPANDED SCOPE)

## TASK VII: NONCONFORMANCES

### SUMMARY OF CONCERNS

1. NONCONFORMANCES DOCUMENTED ON SURVEILLANCE REPORTS
2. NONCONFORMANCES DOCUMENTED ON PUNCHLISTS
3. NONCONFORMANCES DOCUMENTED ON EXCEPTION LISTS
4. NONCONFORMANCES NOT DOCUMENTED
5. NONCONFORMANCES DOCUMENTED BUT NOT ENTERED INTO THE SYSTEM
6. NONCONFORMANCES VOIDED RATHER THAN BEING DISPOSITIONED

### ASSESSMENT/RESULTS

- I. TOTAL SURVEILLANCE REPORTS.....3365  
SURVEILLANCE REPORTS READY FOR REVIEW COMMITTEE.....2500  
SURVEILLANCE REPORTS THAT MAY HAVE TO  
BE TRANSFERRED TO NR'S.....5%
- II. PROCEDURE (19-QA-20) FOR REVIEW OF PUNCHLISTS,  
TAKING NRC COMMENTS INTO CONSIDERATION, IN REVIEW AND COMMENTS PROCESS
- III. EXCEPTION LISTS ARE A SUBSET OF THE PUNCHLIST AND WILL BE ADDRESSED  
WITH THE PUNCHLIST
- IV. INSPECTION/NONCONFORMANCE REPORTS WITH CONTROL NUMBERS ONLY....185
- V. TOTAL NONCONFORMANCE REPORTS STAMPED VOID.....1067  
TOTAL NONCONFORMANCE REPORTS STAMPED INSPECTION REPORT.....470
- VI. APPROXIMATELY 32% OF THE VOIDED NR'S REQUIRE ADDITIONAL INVEST-  
IGATION BY HJK/QA. IMPOUND AREA FOR MATERIAL REMOVED DURING REWORK  
HAS BEEN ESTABLISHED.
- VII. A SAMPLING OF 300 PROPERLY CLOSED NONCONFORMANCE REPORTS WILL BE  
REVIEWED TO ENSURE PROPER DISPOSITIONING AND CLOSURE. THE SAMPLE  
HAS BEEN ESTABLISHED AND DOCUMENTATION IS BEING GATHERED. PROCEDURE  
(19-QA-XX) BEING WRITTEN TO COVER THIS EFFORT.

### NONCONFORMANCE REPORT SUMMARY

38 NONCONFORMANCE REPORTS HAVE BEEN WRITTEN DUE TO REOPENING OF VOIDED NR'S  
NO DISPOSITIONS TO DATE

TASK VII - (CONT'D)

MANPOWER SUMMARY

	<u>ACTUAL</u>
ENGINEERS	--
QUALITY ENGINEERS	2
INSPECTORS	--
DOCUMENT REVIEWERS	--
CLERKS	--
TOTAL	2

STATUS

THIS TASK IS APPROXIMATELY 66% COMPLETE

ESTIMATED COMPLETION DATE

AUGUST 20, 1982

## TASK VIII: DESIGN CONTROL AND VERIFICATION

### SUMMARY OF CONCERNS (POTENTIAL PROBLEMS)

1. SARGENT & LUNDY (S&L) HAD NO FORMAL PROCEDURE REQUIRING VERIFICATION OF DESIGN CALCULATIONS FOR THERMAL LOADING OF POWER SLEEVES AND DEAD WEIGHT LOADING OF ALL TRAYS
2. THREE EXAMPLES WERE IDENTIFIED IN WHICH S&L DESIGN DEVIATED FROM THE FSAR
  - A) CABLE TRAY LOADING: DESIGN BASIS DIFFERED FROM THAT STATED IN THE FSAR
  - B) CABLE SEPARATION: SEE TASK VI
  - C) WELD ACCEPTANCE CRITERIA: SITE PROCEDURES TAKE EXCEPTION TO AWS D1.101972 - INSPECTION ACCEPTANCE FOR UNDERCUT. THE FSAR DOES NOT STIPULATE THE EXCEPTION
3. S&L HAD NO FORMAL PROCEDURE FOR DOCUMENTING DESIGN DEVIATIONS WHEN IDENTIFIED BY ENGINEERS

### ASSESSMENT / RESULTS

1. REVISED PROJECT INSTRUCTION TO EXPLICITLY INCLUDE DESIGN CALCULATIONS FOR THERMAL LOADING OF POWER SLEEVES AND DEAD WEIGHT LOADING OF ALL TRAYS. NO PROBLEMS WITH PAST DESIGN CALCULATIONS
2. S&L DID HAVE METHODS FOR CONTROLLING DESIGN CALCULATIONS AND DEFICIENCIES IDENTIFIED BY ENGINEERS. THE SYSTEM HAS BEEN CLARIFIED BY ISSUING A NEW PROCEDURE (GQ 16.03).
3. ITEM 2A ABOVE: METHODOLOGY DIFFERED FROM FSAR, HOWEVER ACCEPTANCE CRITERIA UNCHANGED
4. ITEM 2C ABOVE: S&L HAS ENGINEERING EVALUATION TO JUSTIFY EXCEPTION TO AWS CODE CRITERIA. FSAR NOW ALLOWS EXCEPTIONS TO BE TAKEN BASED ON ENGINEERING EVALUATION.

TASK VIII - (CONT'D)

CONCLUSION

NO PROBLEMS HAVE BEEN FOUND WITH THE QUALITY OF S&L WORK. THEIR  
SYSTEM HAS BEEN MADE MORE FORMAL. REPORT WILL BE WRITTEN

STATUS

THIS TASK IS 90% COMPLETE ..

ESTIMATED COMPLETION DATE

JUNE 1, 1982 ..

## TASK IX: DESIGN DOCUMENT CHANGES

### SUMMARY OF CONCERNS

SOME DESIGN DOCUMENT CHANGES (DDC'S) MAY HAVE NOT BEEN ADEQUATELY CONTROLLED THROUGH DISTRIBUTION AND INSPECTION

### ASSESSMENT/RESULTS

- I. CLASSIFICATION OF CG&E, S&L, AND HJK DDC'S AS ESSENTIAL OR NONESSENTIAL IS 95% COMPLETE. THE SCOPE OF THIS TASK IS BEING EXPANDED TO COVER DDC'S BY WY&B AND OTHER SITE CONTRACTORS.
- II. REVIEW OF INSPECTION DOCUMENTATION IS 22% COMPLETE FOR THE ORIGINAL SCOPE. 507 DEFICIENCIES IDENTIFIED FOR REPORTING VIA DOCUMENT DEFICIENCY NOTICES OR NONCONFORMANCE REPORTS AS APPLICABLE.
- III. PIPE SUPPORT DDC'S ARE BEING REMOVED FROM THE SCOPE OF THIS TASK

### MANPOWER SUMMARY

	<u>ACTUAL</u>
ENGINEERS	5
QUALITY ENGINEERS	--
INSPECTORS	--
DOCUMENT REVIEWERS	5*
CLERKS	<u>1</u>
TOTAL	10½

\* 8 ADDITIONAL PERSONNEL FROM OTHER QCP TASKS - ASSIGNED TO TASK IX ON OR ABOUT 8/16/82

### STATUS

THIS TASK IS APPROXIMATELY 28% COMPLETE

### ESTIMATED COMPLETION DATE

BASED ON A 40 HR WORK WEEK, WITH CURRENT MANPOWER AND ADDITIONAL MANPOWER AVAILABILITY AS NOTED ABOVE, THIS TASK WILL NOT BE COMPLETE UNTIL THE END OF JANUARY 1983. THE USE OF OVERTIME (10 HRS/WK/MAN) WOULD REVISE THIS DATE TO THE BEGINNING OF DECEMBER 1982

TASK X: SUBCONTRACTOR QA PROGRAMS

SUMMARY OF CONCERNS

1. THE BRISTOL PROJECT SUPERINTENDENT WAS RESPONSIBLE FOR BOTH THE STEEL ERECTION AND THE ERECTION QUALITY CONTROL
2. THE BRISTOL FIELD INSPECTION PROGRAM FAILED TO DOCUMENT SPECIFIC WELDS INSPECTED AND DETAILS OF THE INSPECTION
3. REVIEW PAST AUDITS OF SUBCONTRACTOR QA PROGRAMS

ASSESSMENT/RESULTS

- I. BRISTOL FIELD WELDS ARE BEING INSPECTED AS A PART OF TASK I
- II. ALL VENDOR AUDITS PRIOR TO APRIL 8, 1981 ARE BEING REVIEWED FOR SCOPE AND ADEQUACY. 80 AUDITS IDENTIFIED FOR REVIEW.
- III. PREPARATION OF REVIEW MATRICES (WITH RESPECT TO 18 CRITERIA) IS 100% COMPLETE
- IV. PROCEDURE FOR INTERFACE WITH OTHER OCP TASKS TO VERIFY ADEQUACY OF WORK IS BEING DEVELOPED. EXPECTED COMPLETION 5/15/82

STATUS

THIS TASK IS 37% COMPLETE

ESTIMATED COMPLETION DATE

JULY 16, 1982



## TASK XI: AUDITS

### SUMMARY OF CONCERNS

1. PAST AUDITS BY CG&E IDENTIFIED REPETITIVE PROBLEMS REGARDING DESIGN CALCULATIONS AND VERIFICATIONS NOT BEING PERFORMED CORRECTIVE ACTION BY SARGENT & LUNDY (S&L) AND FOLLOW UP BY CG&E WAS NOT ADEQUATE
2. CG&E HAD NOT AUDITED S&L TO VERIFY COMPLIANCE WITH AND THE EFFECTIVENESS OF THE S&L NONCONFORMANCE PROGRAM

### ASSESSMENT/RESULTS

- I. MANY AUDITS WERE VERY NARROW IN SCOPE (I.E. ADDRESSED A SPECIFIC QUESTION RATHER THAN ONE OF THE 18 CRITERIA)
- II. MANY AUDITS WERE VERY SHORT (I.E. FOUR OR FIVE QUESTIONS) AND LACKING IN DETAIL
- III. 296 AUDITS HAVE BEEN IDENTIFIED
- IV. PREPARATION OF REVIEW MATRICES (WITH RESPECT TO 18 CRITERIA) IS 100% COMPLETE.
- V. PROCEDURE FOR INTERFACE WITH THE QCP TASKS TO VERIFY ADEQUACY OF WORK IS BEING DEVELOPED. EXPECTED COMPLETION 5/30/82

### STATUS

THIS TASK IS 45% COMPLETE

### ESTIMATED COMPLETION DATE

JULY 16, 1982