

PACIFIC GAS & ELECTRIC COMPANY
DIABLO CANYON NUCLEAR POWER PLANT
INDEPENDENT DESIGN VERIFICATION PROGRAM

INTERIM TECHNICAL REPORT NO. 18

REVISION 1

VERIFICATION OF THE FIRE PROTECTION
PROVIDED FOR
AUXILIARY FEEDWATER SYSTEM
CONTROL ROOM VENTILATION AND PRESSURIZATION SYSTEM
SAFETY-RELATED PORTION OF THE 4160 V ELECTRIC SYSTEM

PERFORMED BY

STONE & WEBSTER ENGINEERING CORPORATION

DOCKET NO. 50-275

LICENSE NO. DPR-76

PROJECT MANAGER

Frank Sestak, Jr.

DATE 5-24-83

F. Sestak, Jr.

8305310191 830526
PDR ADOCK 05000275
R PDR



PROGRAM MANAGER'S PREFACE

DIABLO CANYON NUCLEAR POWER PLANT - UNIT I

INDEPENDENT DESIGN VERIFICATION PROGRAM

INTERIM TECHNICAL REPORT

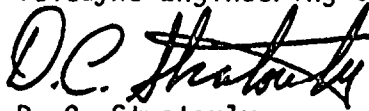
VERIFICATION OF THE FIRE PROTECTION
PROVIDED FOR
AUXILIARY FEEDWATER SYSTEM
CONTROL ROOM VENTILATION AND PRESSURIZATION SYSTEM
SAFETY-RELATED PORTION OF THE 4160 V ELECTRICAL DISTRIBUTION SYSTEM

This is revision 1 to the eighteenth of a series of Interim Technical Reports prepared by the DCNPP-IDVP for the purpose of providing a conclusion of the program.

This report provides the analytical results, recommendations and conclusions of the IDVP with respect to the initial sample.

As IDVP Program Manager, Teledyne Engineering Services has approved this ITR including the conclusions and recommendations. The methodology followed by TES in performing this review and evaluation is described by Appendix C to this report.

ITR Reviewed and Approved
IDVP Program Manager
Teledyne Engineering Services


D. C. Stratouly
Assistant Project Manager



.....

.....

]

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1	INTRODUCTION.....	1-1
2	DEFINITION OF ITEMS REVIEWED.....	2-1
3	DESCRIPTION OF REVIEW.....	3-1
3.1	LICENSING DOCUMENTS.....	3-1
3.2	FIRE PROTECTION ATTRIBUTES.....	3-1
3.3	CABLE SEPARATION.....	3-2
4	SUMMARY OF REVIEW RESULTS.....	4-1
4.1	FIRE ZONE SEPARATION.....	4-1
4.2	DETECTION SYSTEMS.....	4-3
4.3	SPECIAL FIRE HAZARDS CONTROL.....	4-3
4.4	SUPPRESSION SYSTEMS.....	4-4
4.5	CABLE SEPARATION.....	4-4
5	EOI REPORTS ISSUED.....	5-1
6	EVALUATION OF REVIEW RESULTS.....	6-1
6.1	FIRE ZONE SEPARATION.....	6-1
6.2	DETECTION SYSTEMS.....	6-1
6.3	SPECIAL FIRE HAZARDS CONTROL.....	6-2
6.4	SUPPRESSION SYSTEMS.....	6-2
6.5	CABLE SEPARATION.....	6-2
7	CONCLUSIONS.....	7-1
7.1	FIRE ZONE SEPARATION.....	7-1
7.2	DETECTION SYSTEMS.....	7-1
7.3	SPECIAL FIRE HAZARDS CONTROL.....	7-1
7.4	SUPPRESSION SYSTEMS.....	7-1
7.5	CABLE SEPARATION.....	7-1

