

TORREY PINES TECHNOLOGY

A Division of GA Technologies Inc.

Title: QUALITY ASSURANCE PROGRAM DOCUMENT - INDEPENDENT MANAGEMENT REVIEW OF THE
ZIMMER 1 NUCLEAR PLANT PROJECT

Doc. No. QAPD-2474

Issue B

Date

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Issue Summary

Issue	Date	Prepared by	Department Approvals	Purpose of Issue/ Sections Changed
A	3/25/83	S. D. Bresnick	See approval sheet	Preliminary issue - For use and customer approval.
B		S. D. Bresnick	See approval sheet	Deleted CG&E approval line; added R. Dick- honer to page 7.

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CARPENT84-151 PDR

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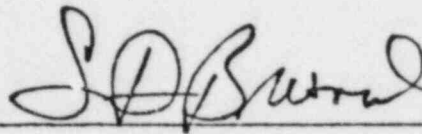
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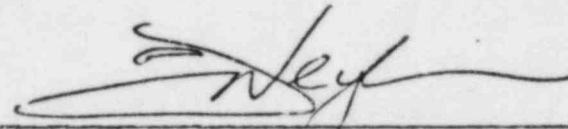
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PREPARED BY:



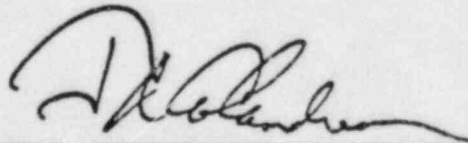
Quality Assurance Manager, TPT Projects
S. D. Bresnick

APPROVED BY:



Project Manager, Torrey Pines Technology
A. J. Neylan

APPROVED BY:



Manager, Quality Assurance
T. R. Colandrea

Notations in this column indicate where changes have been made

B

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1.0 INTRODUCTION

This document defines the Quality Assurance (QA) program for this project. In addition, it identifies the organizational structure and key personnel, and the interface between Torrey Pines Technologies Inc. (TPT), a division of GA Technologies Inc. (GA), and Cincinnati Gas and Electric (CG&E).

2.0 QUALITY ASSURANCE ELEMENTS

The GA QA Manual, is the "umbrella" QA document applied to all work performed at GA. This Quality Assurance Program Document (QAPD) defines how the GA QA Manual is applied for this project. Elements of 10CFR50, Appendix B, and corresponding sections in the GA QA Manual, that apply to this project are listed below and further defined in the following sections.

<u>10CFR50 App. B</u>	<u>GA QA Manual QP #</u>	<u>Element</u>
1	1	Organization
2	2	QA Program
5	5	Instruction, Procedures & Drawings
6	6	Document Control
16	16	Corrective Action
17	17	QA Records
18	18	Audits

2.1 Organization

QP-1 of the QA Manual describes the overall GA organization and responsibilities related to activities affecting quality.

All individuals contributing to the technical content of this project shall be free from conflict of interest, or as defined in proposal No. GACP-31-079. Conflict of interest requirements shall be implemented by a Project Directive.

This project is under the cognizance of A. J. Neylan, who as Project Manager has overall responsibility for managing the project and interfacing with the customer. The Project Manager is supported by GA staff assigned to the project. The Construction Management System Review is under the responsibility of the P. Yensuang, GA Planning & Cost Estimating Manager, and the QA Review is under the responsibility of T. R. Colandrea, GA QA Manager.

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Responsibility for the QA program applied to the TPT work rests with S. D. Bresnick, the QA Manager for TPT Projects. This responsibility includes: establishing the QA program for this project, preparation of the QAPD, arranging for audits of the project and assuring that the project is conducted in accordance with the QA program.

Figure 2-1 shows these relationships. The QA, Management Support and TPT groups all report administratively to different operating divisions, thus ensuring the independence of the QA function.

Task managers will be assigned to each major task within the project scope.

2.2 Quality Assurance Program

The Quality Assurance program for this project is as defined herein, and in applicable sections of the GA QA Manual.

All personnel working on this project shall be indoctrinated on the program scope and objectives, and trained in the specific procedures that apply to their work. The Project Manager is responsible for training and indoctrination of personnel under his supervision. This indoctrination and training may include meetings with supervisory personnel, formal training meetings, and reading of procedures. All indoctrination and training activities shall be documented, and the records shall include the subject(s) covered, attendance roster, date, and name of instructor(s), as appropriate.

As a minimum, all personnel assigned to this project shall have access to the latest revision of these documents: QAPD, Program Plan, and all project procedure(s) in their area(s) of responsibility.

2.3 Instructions, Procedures and Drawings

A description of the overall project and details of the specific tasks are presented in the Program Plan issued by the Project Manager. This Plan is the source document for the project scope.

Detailed working level procedures shall be prepared as required to implement the Program Plan. All procedures require the approval of the Project Manager and the QA Manager.

Project Directives shall be issued and controlled by the Project Manager, for the purpose of providing administrative direction to project personnel.

2.4 Document Control

All communication between GA and CG&E will comply with "Protocol Governing Communication Between CG&E and Independent Organizations Conducting Re-

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views or Audits Under the Commission's Order," as identified in the 03/02/83 letter from the NRC (Keppler) to CG&E (Dickhoner).

All procedures issued, including changes, will be subject to document control measures. Prior to their release, procedures will be reviewed by the cognizant task managers and Project Manager. Changes to procedures will require control and review equivalent to those applied to the initial document. Release of controlled procedures is the responsibility of the Project Manager.

All documents, drawings and other written communications that relate to this project that are received from the customer or its subcontractors, shall be logged into the Records Management organization.

2.5 Corrective Action

If, through audits or other means, a need for formal corrective action on TPT's work is identified, then a Corrective Action Request form (CAR) shall be processed in accordance with the GA QA Manual.

2.6 Quality Assurance Records

Records generated during performance of the work shall be maintained under the cognizant task or Project Manager's control. The records will be in the form of documents as required to implement the Program Plan.

Requirements for records retention and transmittal to the customer shall be as specified in the contract, Program Plan, or Project Directive. The Project Manager shall prepare a list of specific documents required to be retained as part of the project QA records. The list will include the retention period, method of final disposition, method of storage and responsibility for storage and maintenance. The list shall be approved by the QA Manager, TPT.

2.7 Audits

The QA manager for TPT projects will plan and implement scheduled audit(s). These audit(s) will be conducted in accordance with the Quality Assurance Manual.

Audit(s) will be performed to verify the status and adequacy of the program, including the following areas:

- a) Proper implementation of the Program Plan.
- b) Requirements in the Project Procedures are properly implemented.
- c) Requirements in the QAPD are properly implemented.
- d) Requirements in Project Directives are properly implemented.

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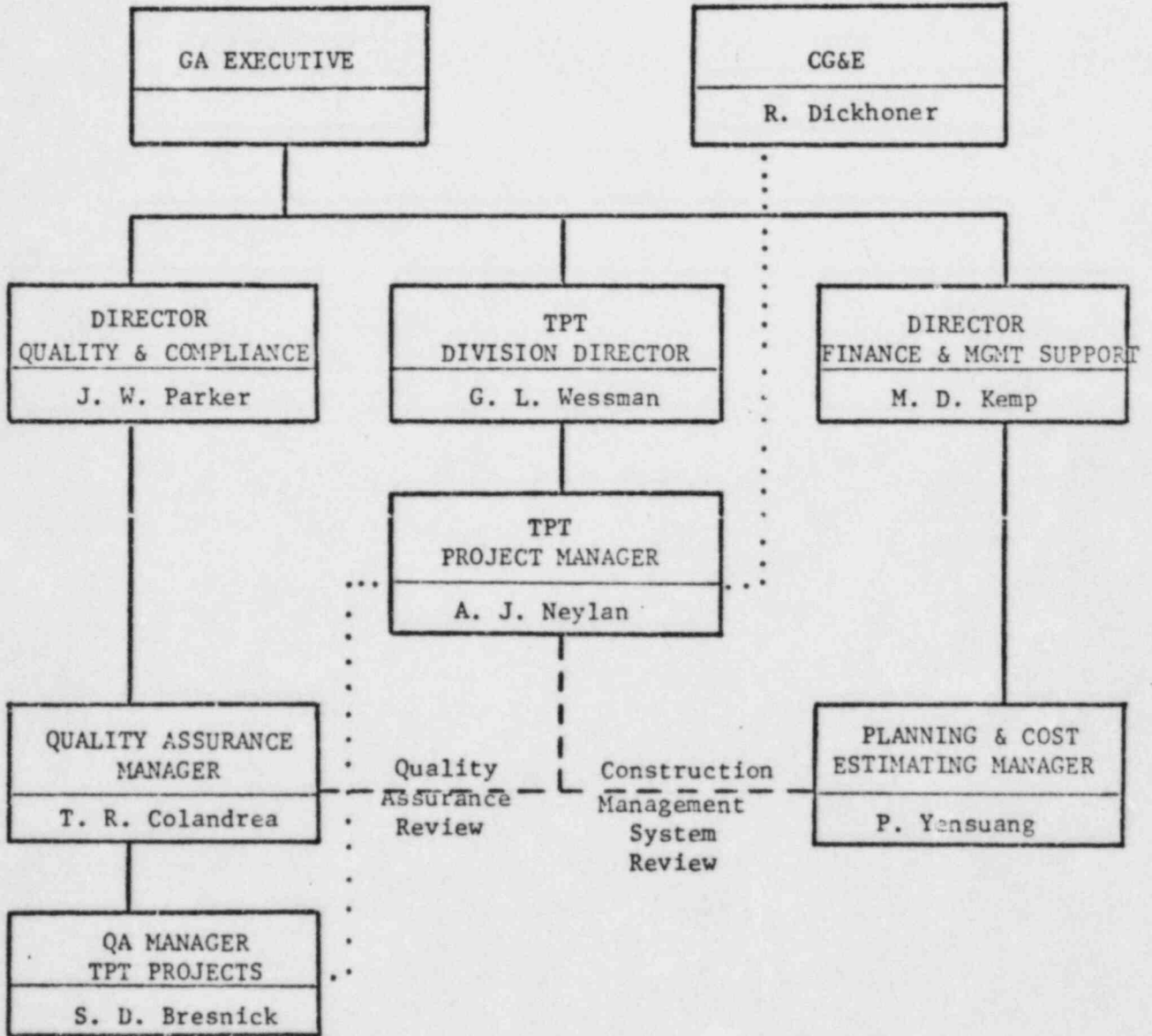
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E



- = Project Control
- = Administrative Control
- = Communication