

PRESENTATION OF

NEAL E. CARTER
GENERAL MANAGER
BATTELLE PROJECT MANAGEMENT DIVISION

TO

U.S. NUCLEAR REGULATORY COMMISSION
QUALITY ASSURANCE STAFF

DECEMBER 19, 1984

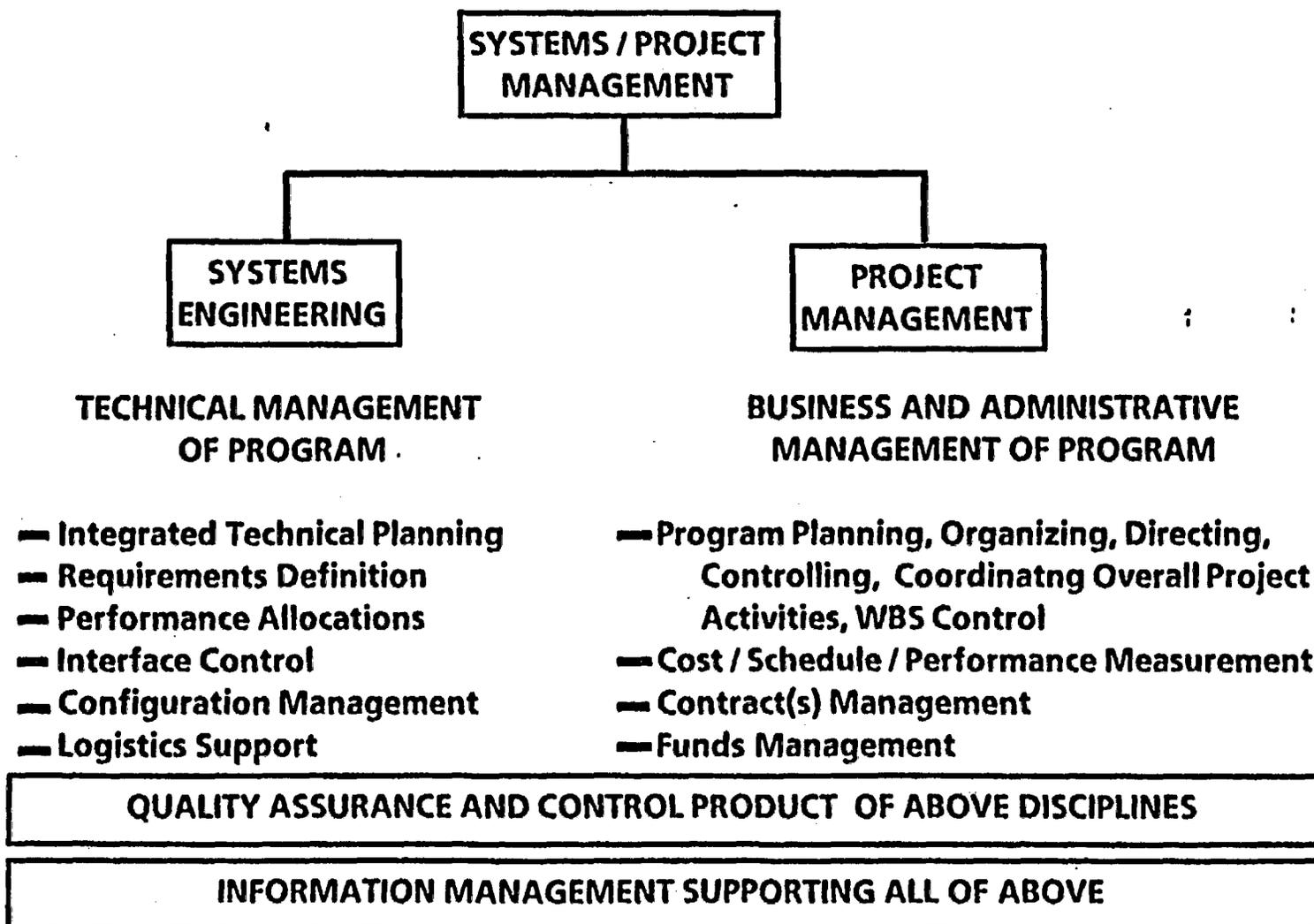
*all the to Kennedy's
pm. Nuff 2/22/85*

ELEMENTS OF BPMD'S QUALITY ASSURANCE PROGRAM

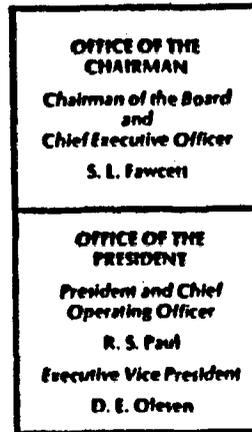
- TOP MANAGEMENT COMMITMENT
- INDEPENDENCE
- GOOD PROGRESS ON PROCEDURAL FRAMEWORK
- MORE TO DO
 - PROCEDURES
 - TRAINING
 - CONFIGURATION MANAGEMENT
- EXCELLENT QUALITY ASSURANCE DEPARTMENT STAFF
- EXPERIENCED TECHNICAL MANAGERS
- ACTIVE AUDIT PROGRAM
- STOP WORK AUTHORITY
- BROAD VIEW OF QUALITY ACHIEVEMENT
- IMPORTANT TO BATTELLE'S REPUTATION.

ACCOMPLISHING THE PM PROCESS

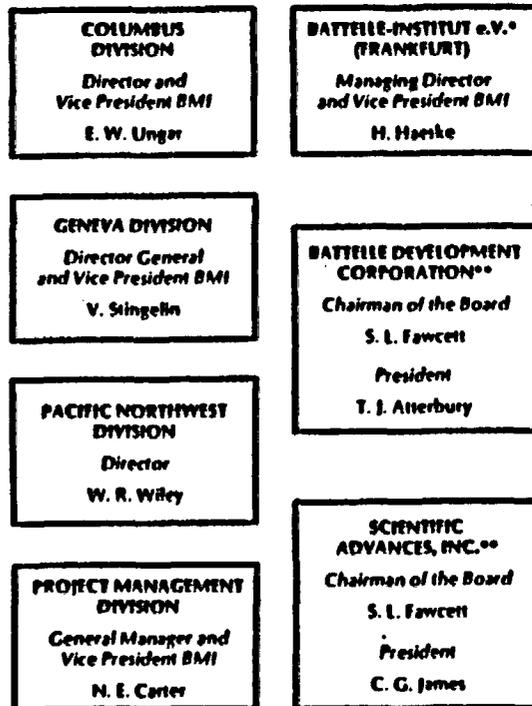
Get the Right System at the Right Price
"Quality Product Which Satisfies Mission Requirements
on Schedule Within Planned Resources"



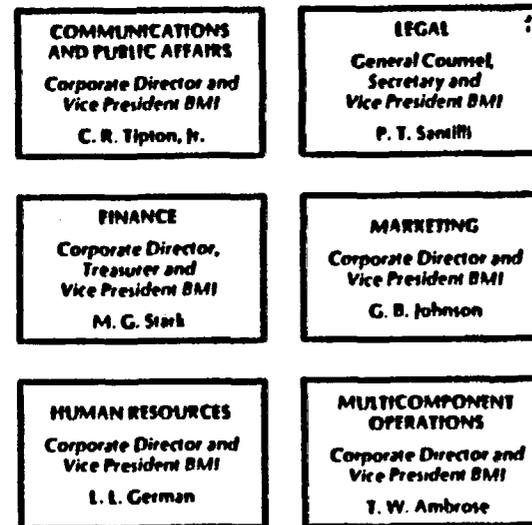
BATTELLE MEMORIAL INSTITUTE ORGANIZATION



Business Operations

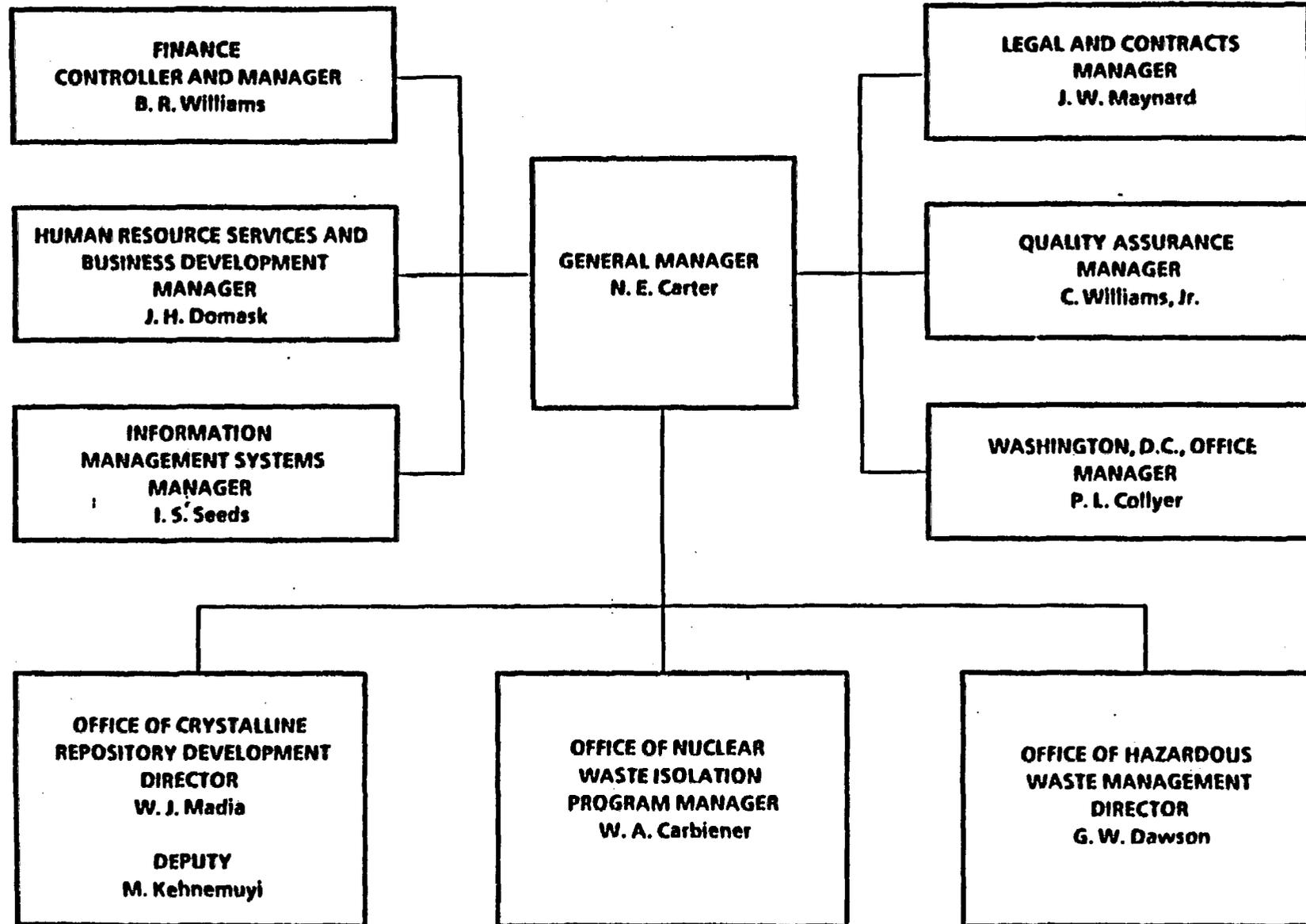


Corporate Functions

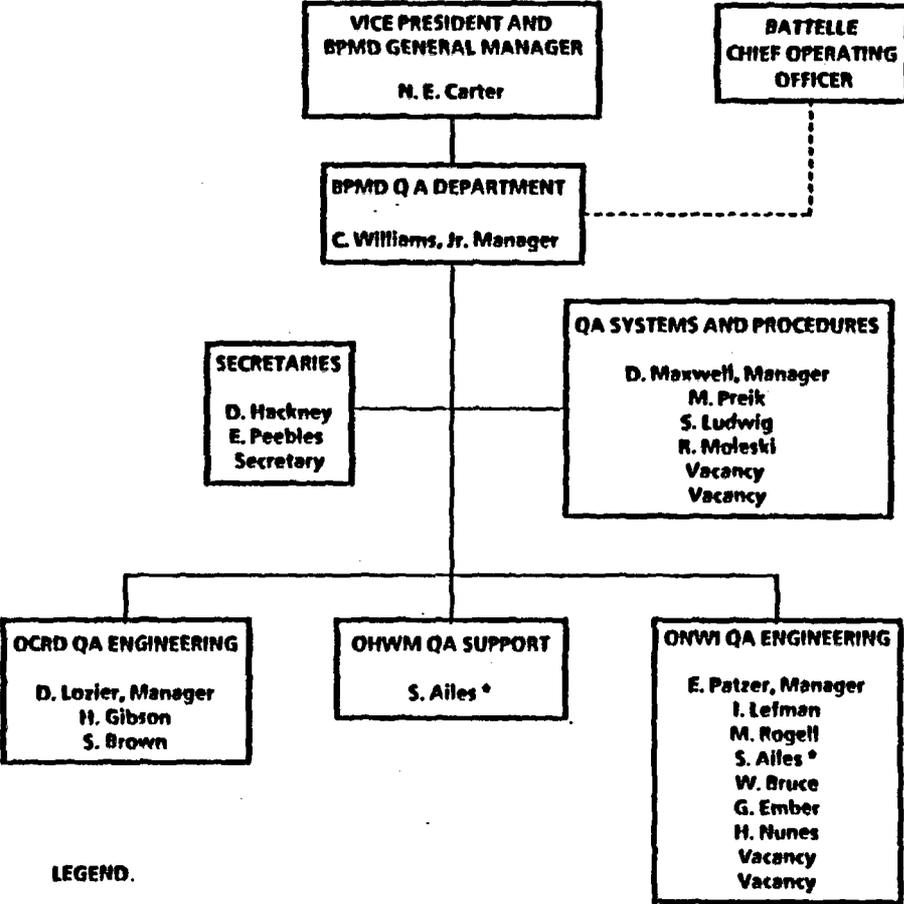


*An association: S. L. Fawcett and R. S. Paul, Chairman and Vice Chairman, respectively.
 **Wholly owned subsidiaries.

BATTELLE PROJECT MANAGEMENT DIVISION



BPMD QA ORGANIZATIONAL STRUCTURE AND STAFFING



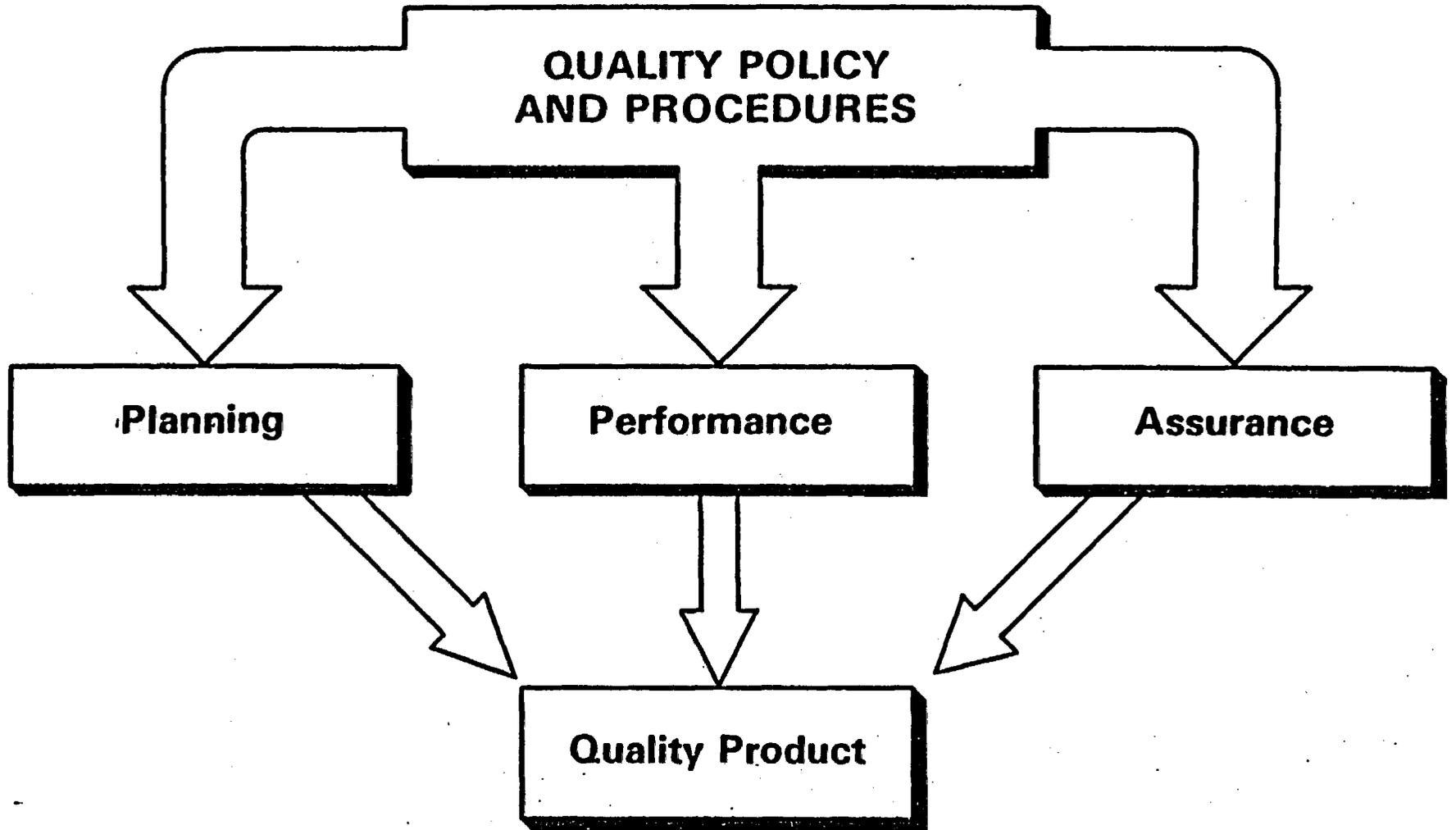
LEGEND.

..... Communication and Support

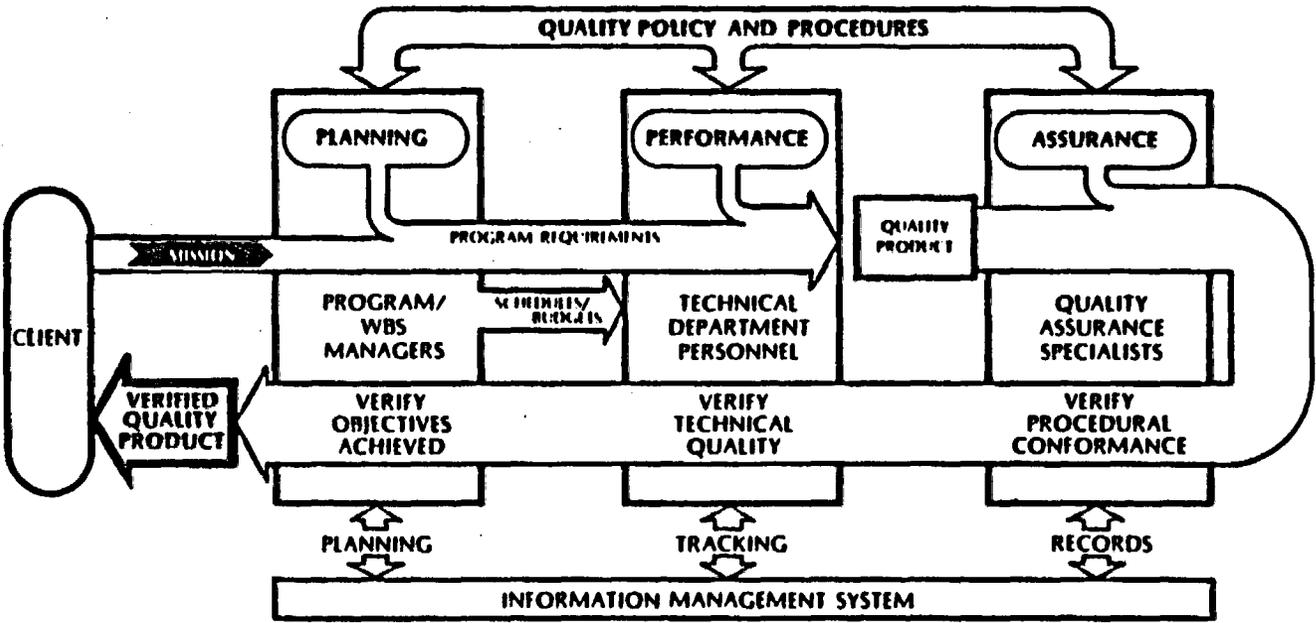
———— Lines of Authority

* Dual Assignment

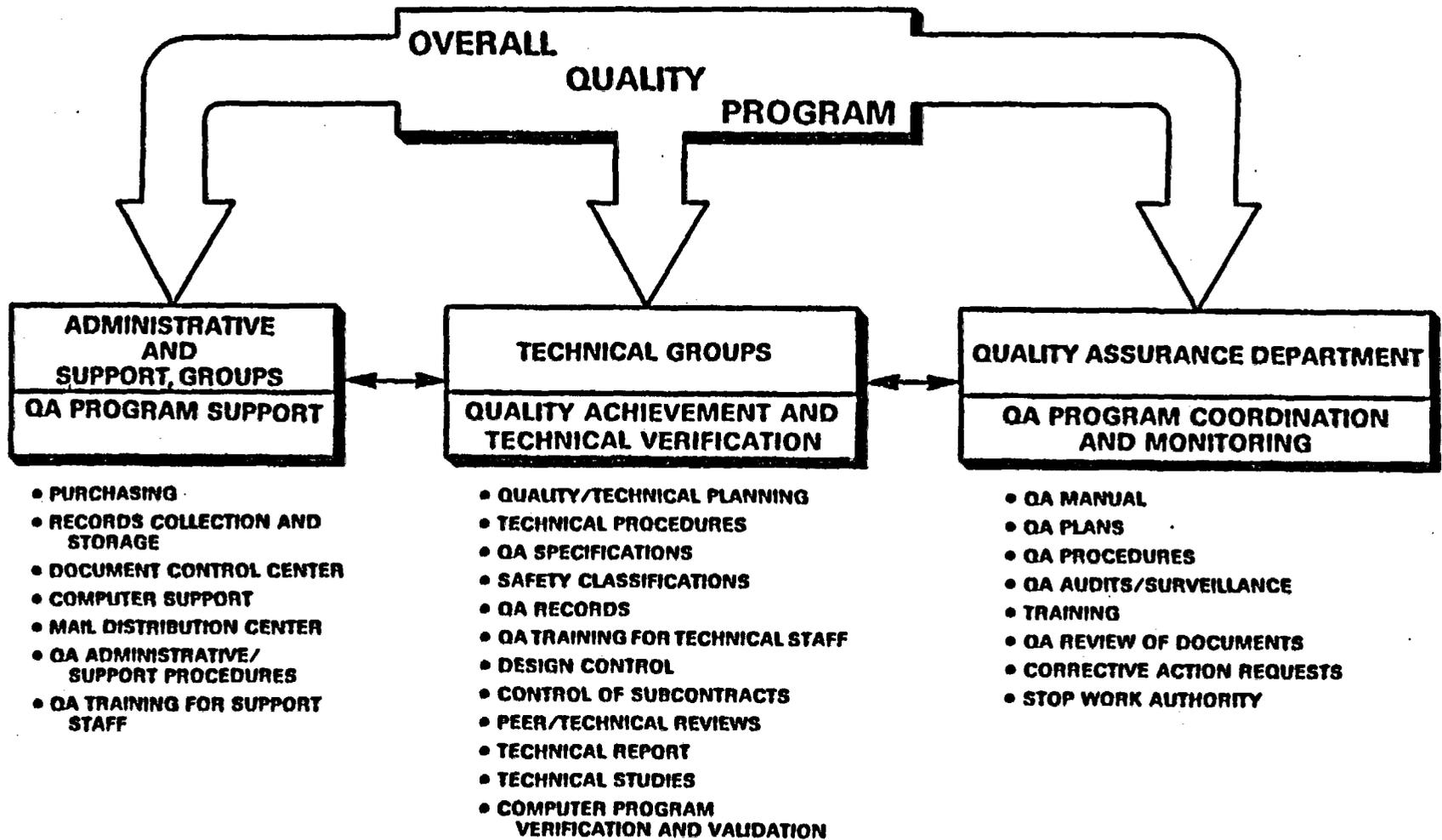
QUALITY ACHIEVEMENT PROGRAM



Pathway for Producing and Verifying Quality Products



BPMD QUALITY ASSURANCE— A TEAM EFFORT



QUALITY ACHIEVEMENT PROGRAM

Definition

- **Quality means conformance to valid requirements**
- **Valid requirements—product which satisfies customer's requirements and schedule, within budget**

QUALITY ACHIEVEMENT PROGRAM

Purpose

- **Reaffirm role of individual**
- **Stimulate individual commitment**

QUALITY ACHIEVEMENT PROGRAM ELEMENTS

- **Definition**
- **Accountability**
- **Management Involvement**
- **Procedures**
- **Communications**
- **Staff Involvement**
- **Training**
- **Recognition**

ONWI CONTRACTORS

ONWI CONTRACTOR AND ID NUMBER	TITLE
Georgia Institute of Technology E512-01000	Thermal Shale History Project
NUS Corporation E512-01400	RPM-Bedded Salt Project
Bechtel National, Inc. E512-01600	RPM Domed Salt Project
Woodward-Clyde Consultants E512-01800	GPM Pierre Shale and Paradox Formation
RE/SPEC Inc. E512-02200	Field Test/Dome Salt
RE/SPEC Inc. E512-02300	Repository Conceptual Analysis
Westinghouse E512-02700	Field Test Development
Intera Technologies E512-02900	Performance Assessment Program
D'Appolonia E512-03000	Borehole Plugging/QA & Field Support
Ohio State University E512-03900	Waste Investigation
Penn State University E512-04200	Repository Sealing
Stone & Webster E512-05000	Permian GMP
Earth Technology E512-05700	GMP Southern Region-Salt
Westinghouse E512-06400	Waste Package Design
Ebasco, Services E512-07100	Licensing Project Manager
Terra Tek E512-07200	Wellbore Zone Experimental Determination

ONWI CONTRACTORS

ONWI CONTRACTOR AND ID NUMBER	TITLE
Arizona State University E512-08100	Earth Sciences
University of California E512-08300	Geothermal Activity-Natural Analog Backfill Materials
Texas Agriculture Experimental Station E512-08500	Finalize the SEARS Methodology
PBQ & D-PB-KBB, Inc.	Exploratory Shaft Facility
Goldberg-Zoino (SRI) E512-09400	Stress and Displacement Measurement Techniques
Colorado School of Mines E512-09500	Geochemistry of Radionuclides in Natural Brines
Columbia University E512-09700	Gas Outbursts Study in Salt & Potash Mines
University of Minnesota E512-09800	Rock Mechanics Lab Testing & Analysis
Golder Associates E512-09900	In Situ Testing/Salt Exploratory Shaft
RE/SPEC Inc. E512-10000	Rock Mechanics Analyses Laboratory Testing
Stearns-Rogers E512-10700	EA Engineering Support



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 Chicago Operations Office
 Salt Repository Project Office
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 Columbus, Ohio 43201-2693
 Commercial (614) 424-5916
 F.T.S. 976-5916

Conducting of ASD files
ELL
10/12/84

December 10, 1984

Glen Stafford
 Parsons-Redpath
 3040 Riverside Drive, Suite 224
 Columbus, OH 43221

Dear Mr. Stafford:

SUBJECT: DOE/SRPO QA AUDIT OF PARSONS-REDPATH QA PROGRAM
 CONTRACT DE-AC02-83CH10125
 BPMID ID No. E530-05400
 AUDIT No. 84-E-12

The attached report presents the results of the subject audit conducted at your facility on November 15-16, 1984. The results of the audit were discussed with Parsons-Redpath's representatives at the postaudit meeting held on November 16, 1984.

The cooperation and responsiveness of your personnel during the conduct of the audit and during the postaudit meeting are noted and appreciated.

It is requested that you reply to this report within 30 days of receipt. Your reply shall be addressed to the SRPO QA Manager and shall identify (1) the actions to be taken to correct the reported findings, (2) actions to be taken to preclude recurrence of similar deficiencies, and (3) a schedule for completion of all involved actions. Please document your responses on the attached Audit Action Reports.

If you have any questions, please feel free to contact me at 424-5916.

Sincerely,

T.J. Reese

T.J. Reese
 Manager
 Quality Assurance
 Salt Repository Project Office

SRPO:TJR:max:5061B

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 MAIL DISTRIBUTION CENTER

G. Stafford
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Enclosure:
As Stated

cc: C. Williams, Jr., BPMD
E. Patzer, BPMD
I. Lefman, BPMD
C. Newton, DOE-HQ
E. Sulek, Weston
V. Potent, DOE-CH

QA# 43-85