

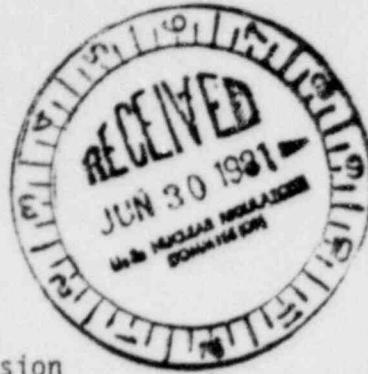


Westinghouse
Electric Corporation

Water Reactor
Divisions

Nuclear Technology Division

Box 355
Pittsburgh Pennsylvania 15230



June 11, 1981

PI-DA-81-109

NS-TMA-2456

Mr. Walter P. Haass, Chief
Quality Assurance Branch
Division of Project Management
U.S. Nuclear Regulatory Commission
1717 H Street
Washington, DC 20555

SUBJECT: Westinghouse Water Reactor Divisions' Organization Change

Dear Mr. Haass:

This letter is to notify you of an organizational restructuring within Water Reactor Divisions (WRD) effective May 26, 1981. The changes are summarized below. Also, Attachments A and B are provided in response to your request for updated organization charts and Section 17.1.1 of WCAP-8370 (REF: Ltr. from W. P. Haass to T. M. Anderson dated 4/7/81).

Attachment A provides current organization charts (Figures 17-1 thru 17-8) that supercede Figures 17-1 thru 17-10 of WCAP-8370, Rev. 9A. Attachment B is the current organizational description, Section 17.1.1.1 of WCAP-8370, Rev. 9A. These changes will be formally incorporated in Revision 10 of WCAP-8370, planned for submittal to U.S. NRC within 90 days of the issuance of Regulatory Guide 1.28, Rev. 3.

Nuclear Technology Division (NTD)

The activities previously accomplished by Nuclear Equipment Product Assurance and NTD Product Assurance Department are combined into the Product Integrity and Design Assurance Department. This department is responsible for Design Assurance, Design Integration activities and product surveillance activities and for providing unified, consistent methods of operation with the WRD Business Unit.

The Product Integrity and Design Assurance Manager reports directly to the General Manager, NTD. The department consists of: Design Assurance Operations, QA Engineering, QA Mechanical Equipment and QA Electrical. Design Assurance Operations is responsible for Engineering Management and control of principle design documentation, design bases documentation and change control, and the integration of the design and design changes to assure proper functional design impacts. The Manager, Design Assurance Systems; Manager, Design Integratio., Manager, Systems Compliance; Manager, PA Domestic Projects I; Manager, PA Domestic Projects II; Manager, PA International Projects and Manager, Records and Files Operations all maintain their previous assignments and report to the Manager, Design Assurance Operations.

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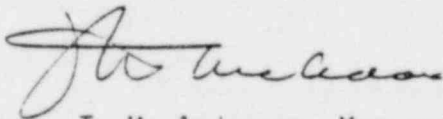
The Manager, QA Mechanical Equipment maintains his previous assignments and reports to the Manager, Product Integrity and Design Assurance.

The activities previously accomplished by the PA Services group are now accomplished by the QA Engineering Group in addition to the previous QA Engineering activities. The Manager, QA Engineering reports to the Manager, Product Integrity and Design Assurance.

The Manager, QA Electrical is responsible for the electrical QA engineering activities previously accomplished by PA Systems as well as the previous QA Electrical activities and reports directly to the Manager, Product Integrity and Design Assurance.

No impact from this change in WCAP-8370 is anticipated since this is a change in organization elements as provided for by WCAP-8370 and NUREG-75/087, Rev. 1. No impact from this change in WCAP-7800 is anticipated since Nuclear Fuel Division continues its present organizational structure.

If you have any questions concerning information contained in this change, please contact Mr. Howard Brunko (412) 273-6216.


T. M. Anderson, Manager
Nuclear Safety Department

RAW/MHS/ma

Attachments

ATTACHMENT A

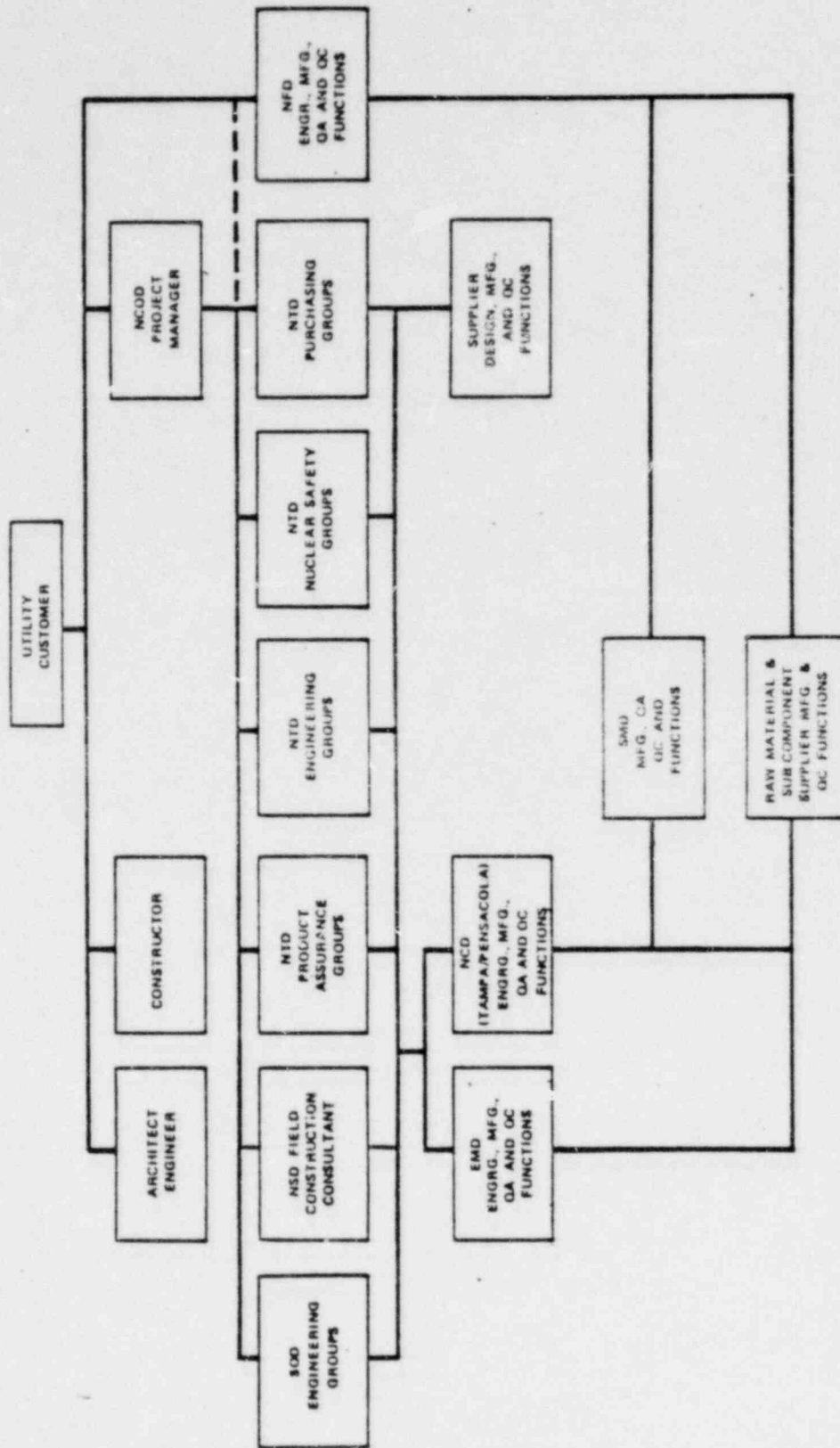


FIGURE 17.1. NSSS FUNCTIONAL RELATIONSHIP CHART

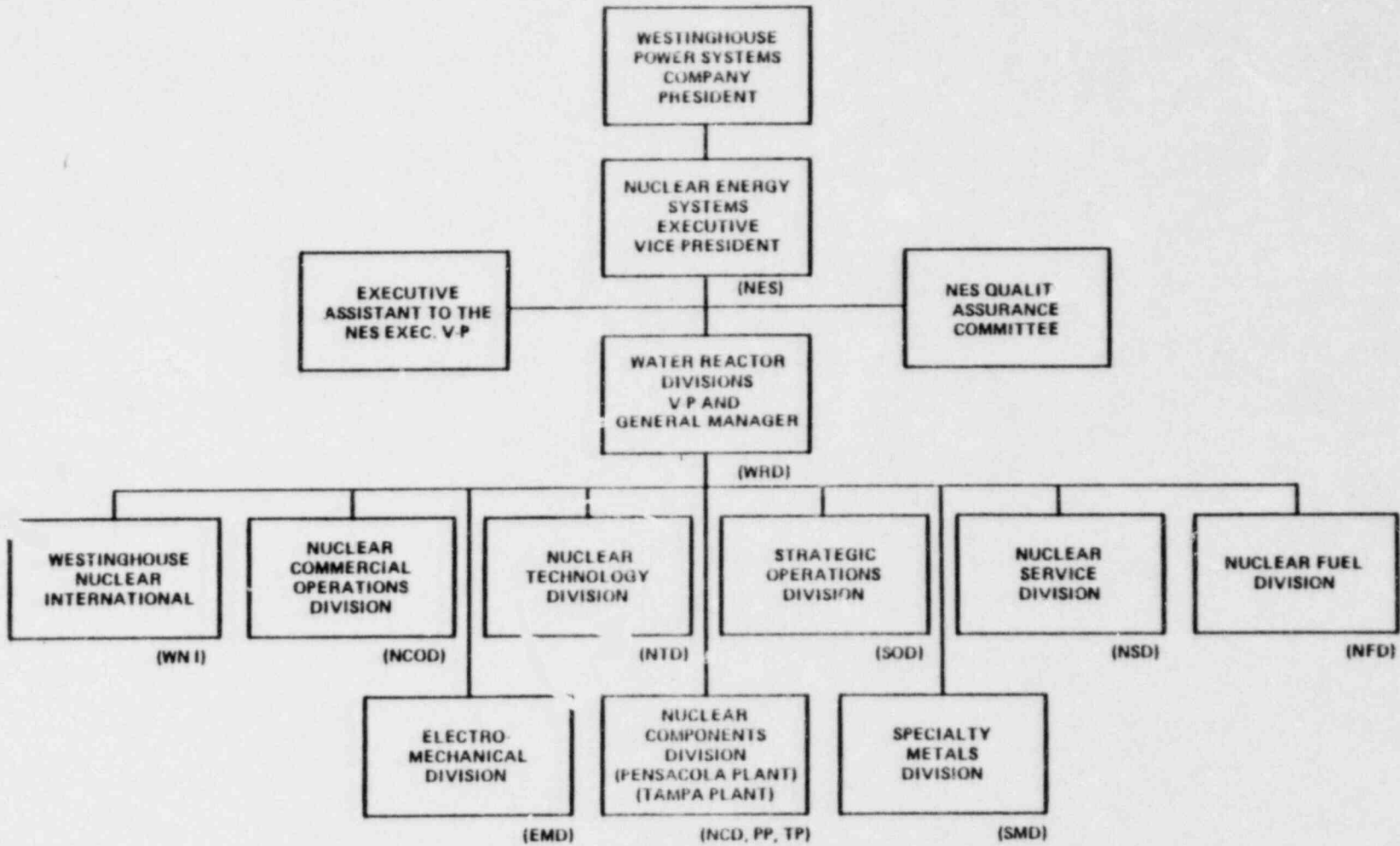


Figure 17-2. Nuclear Energy Systems Organization for Water Reactor Division/Plant(s)

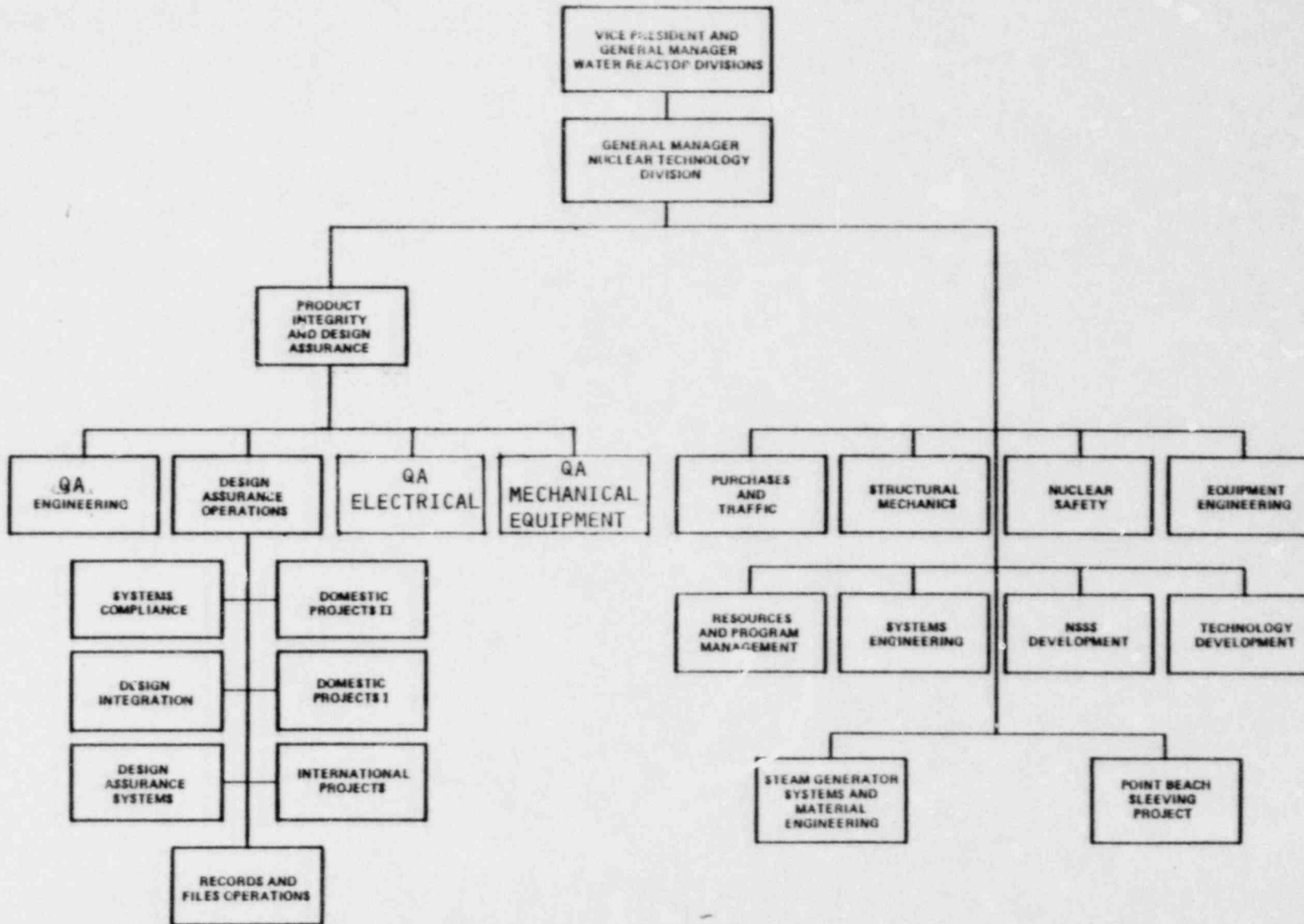
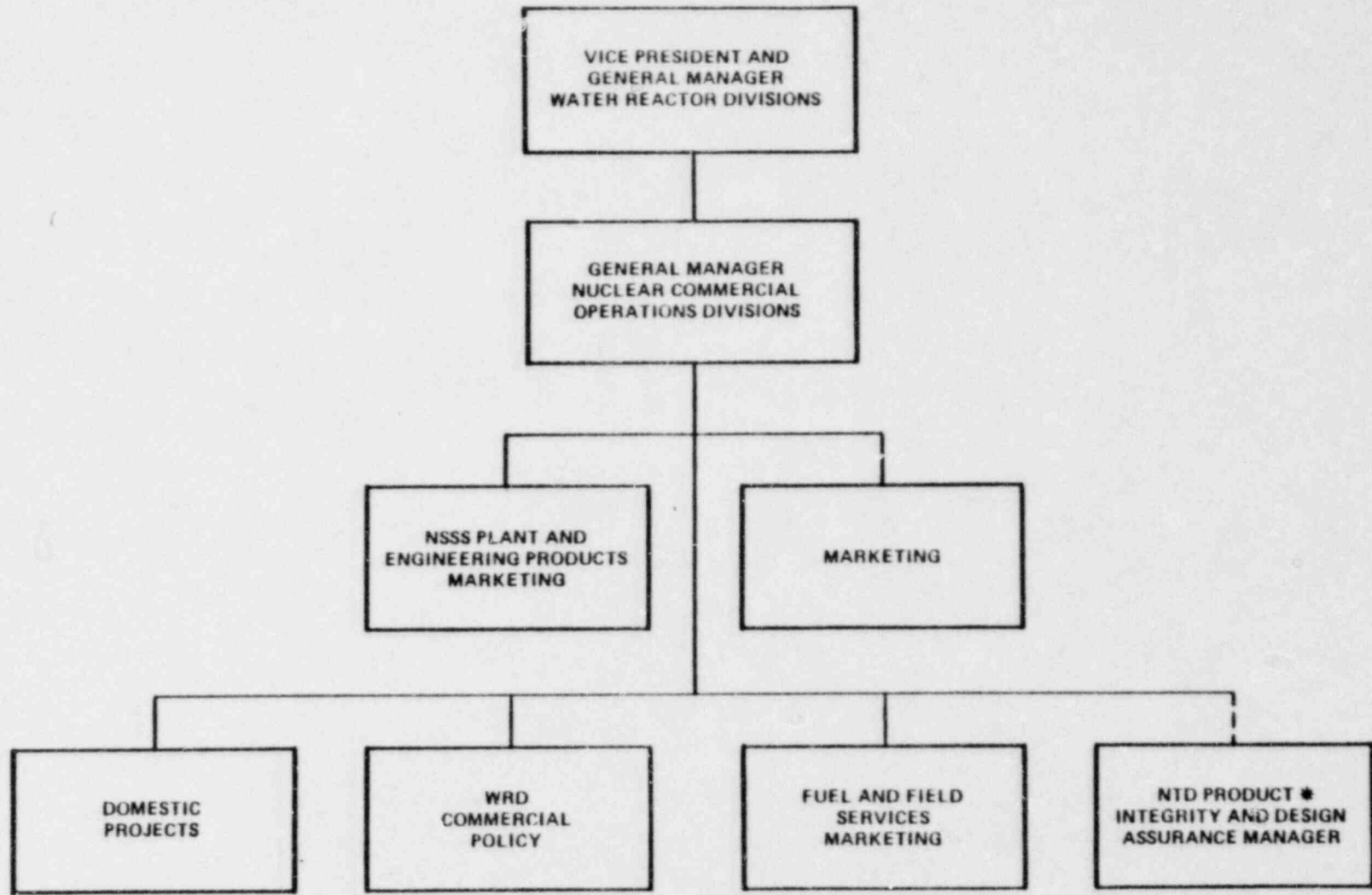


Figure 17-3. Nuclear Technology Division Quality Assurance Program Organization



* REPORTS DIRECTLY TO NTD GENERAL MANAGER

Figure 17-4. Nuclear Commercial Operations Division Quality Assurance Program Organization

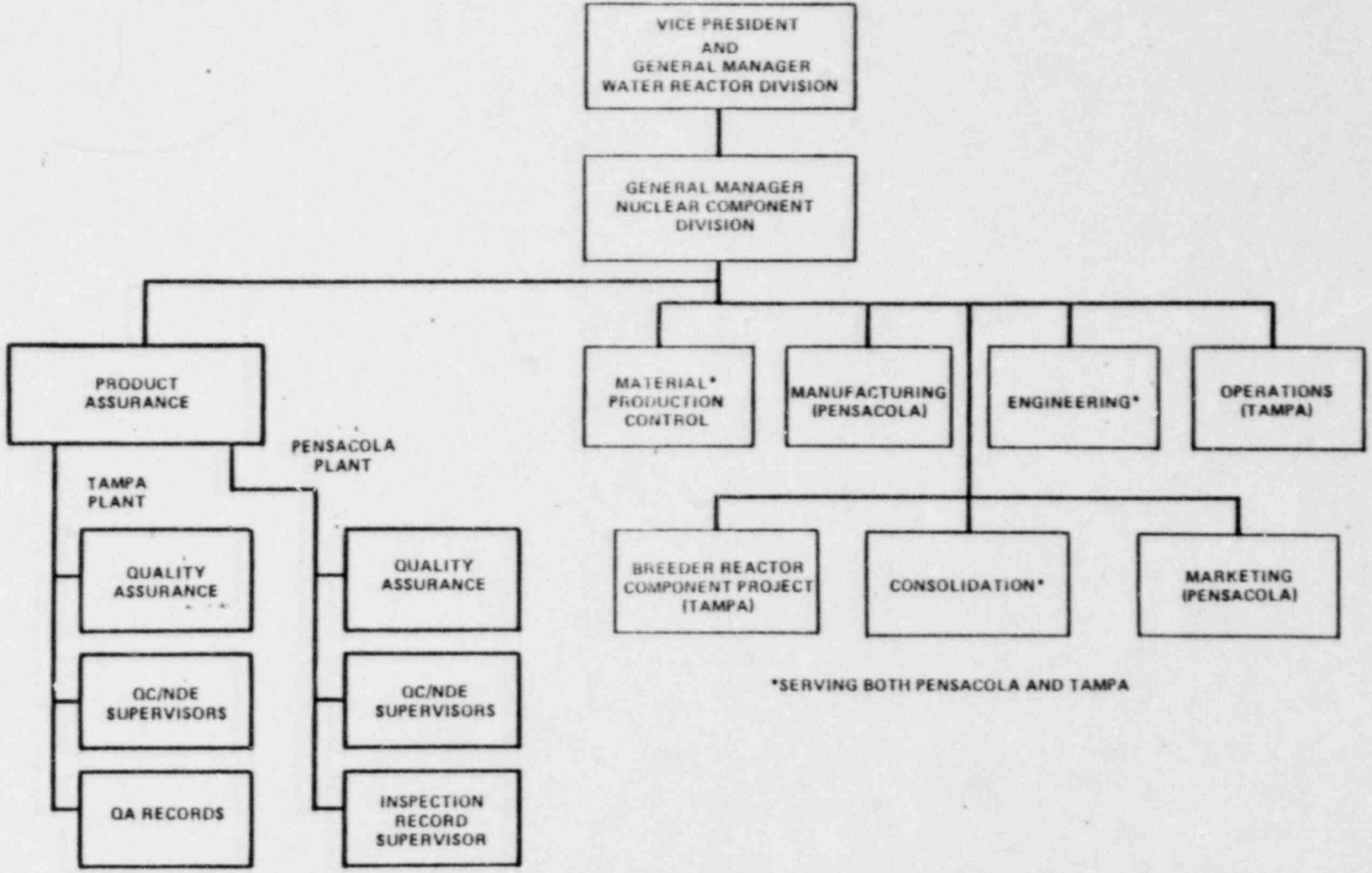


Figure 17.5. Nuclear Component Division Quality Assurance Program Organization

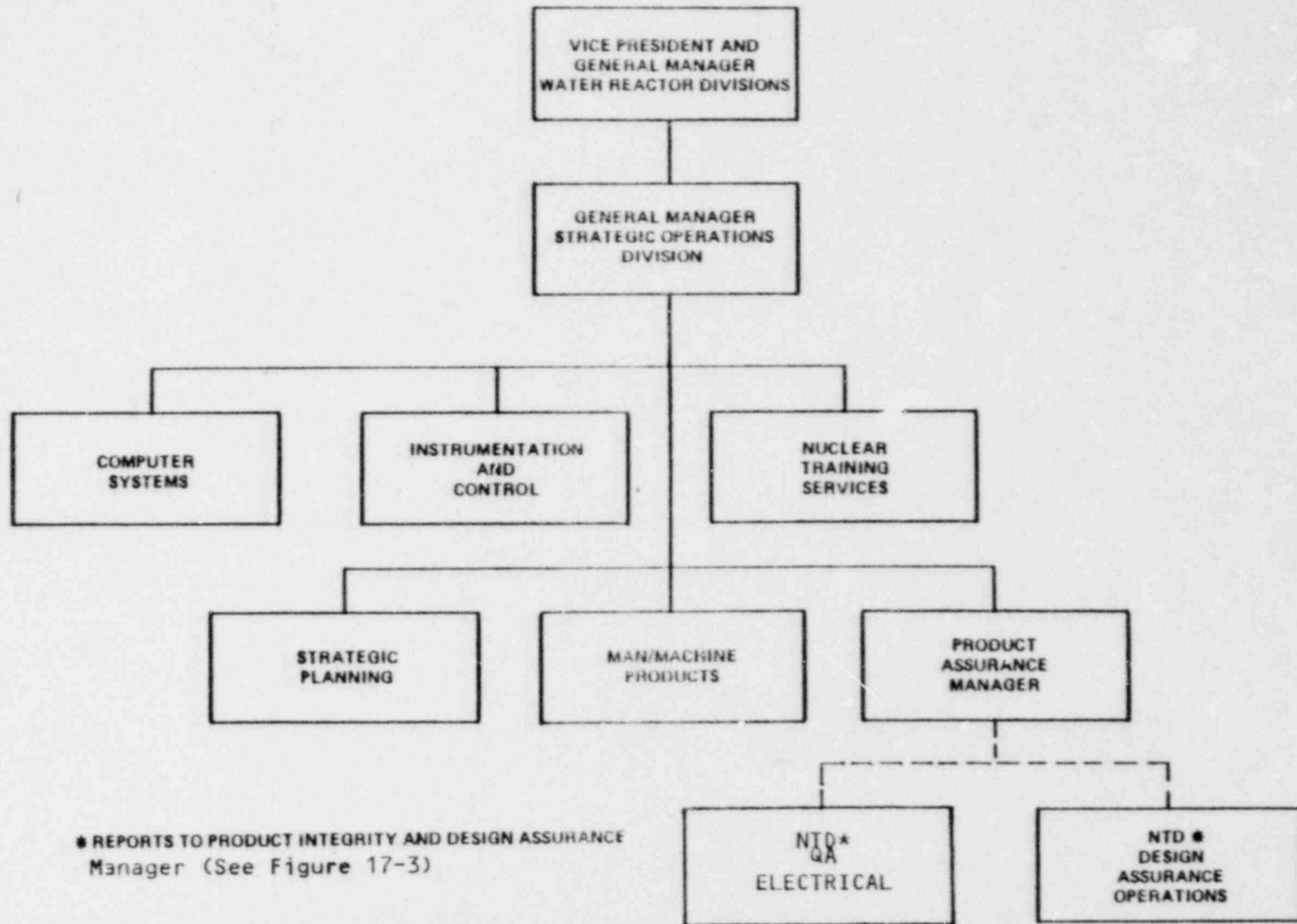


Figure 17-6. Strategic Operations Division Quality Assurance Program Organization

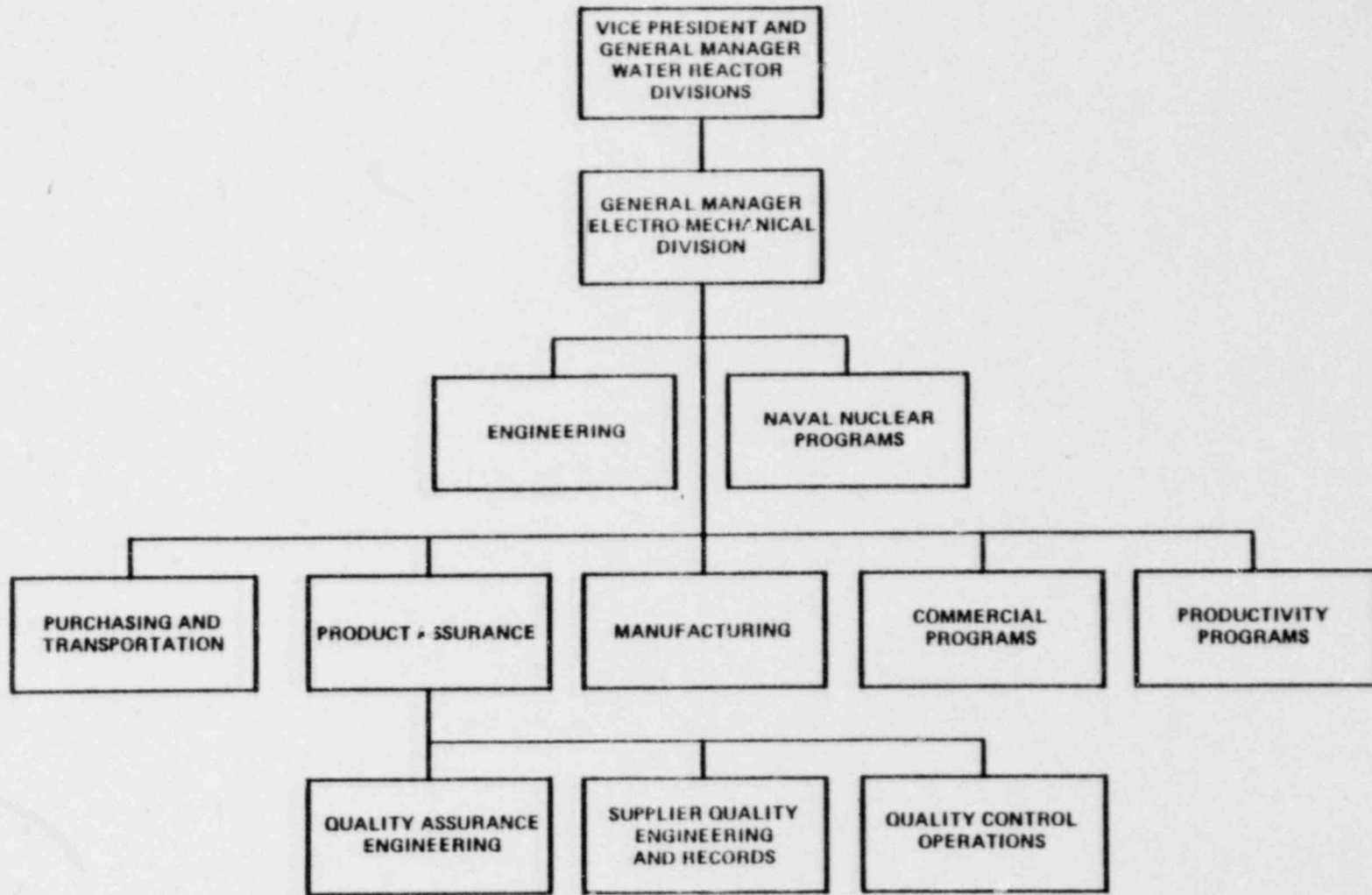


Figure 17-7. Electro Mechanical Division Quality Assurance Program Organization

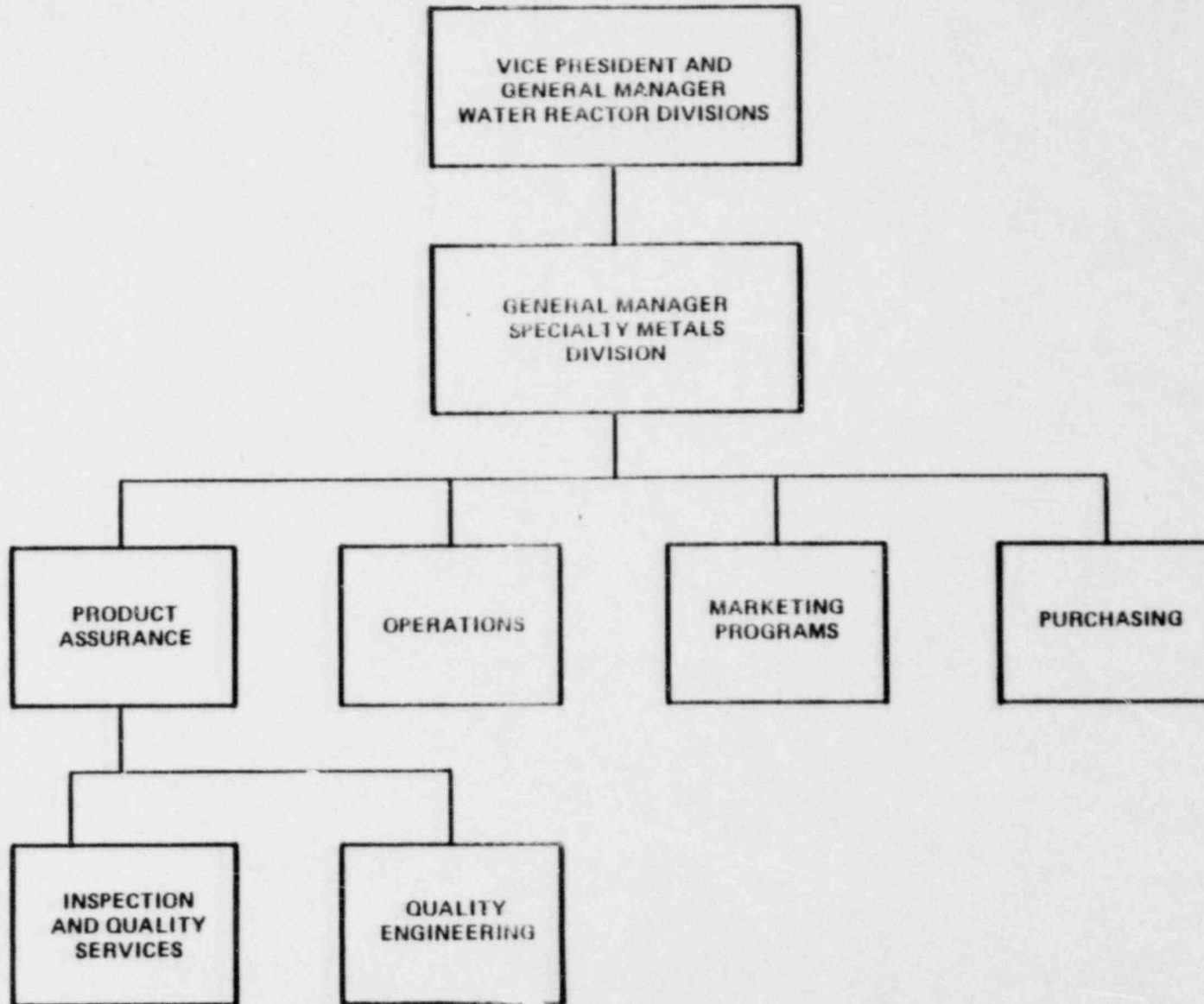


Figure 17-8. Specialty Metals Division Quality Assurance Program Organization

POOR ORIGINAL

ATTACHMENT B

17.1.1.1 Nuclear Technology Division

Nuclear Technology Division, as shown on Figure 17-3, has Water Reactor Division lead responsibility with regard to development of Nuclear Safety and Product Assurance Policy, systems design and integration of NSSS equipment design.

The engineering function of Nuclear Technology Division is provided by several departments. These groups are responsible for performing the various technical functions associated with overall NSSS system design and design of NSSS equipment and for following and concurring with the remainder of the design cycle in the Nuclear Components Division, Electro-Mechanical Division and Strategic Operations Division.

The Nuclear Safety Department is responsible for providing the Nuclear Steam Supply System safety performance requirements, safety system criteria, safety analysis methods, and safety evaluations to provide the required analytical and statistical evaluation of postulated accident controls. Further, the department is charged with providing the licensing activity to support the applicant in obtaining the construction permit and operating license for the nuclear power plant.

Within Nuclear Technology Division, responsibility for quality assurance activities is assigned to the Product Integrity and Design Assurance Department. This includes having lead responsibility for developing, documenting, and executing the Quality Assurance Program, and demonstrating compliance with the 18 Criteria of 10CFR Appendix B. The Manager of Product Integrity and Design Assurance reports directly to the division general manager and is parallel with the other major departments within the division, as shown in Figure 17-3. Thus, matters pertaining to product and system quality can be related directly from the Product Integrity and Design Assurance Manager to the division general manager, independent of other functional activities. The qualification requirements for the Product Integrity Design Assurance Manager are:

1. A bachelor's degree in a technical field;
2. At least ten years experience in engineering or manufacturing with at least one of these years in quality assurance activities;

3. At least five years experience in management of technical or manufacturing organizations;
4. Working knowledge of applicable quality-related codes, standards, regulatory and statutory requirements; and
5. Demonstrated ability to prescribe, apply and assess compliance with applicable requirements.

Training relevant to quality assurance activities and pertinent to the position is described in Section 17.1.2.

The Product Integrity and Design Assurance Manager directs, controls and evaluates the Nuclear Technology Division Quality Assurance Program. This is accomplished through the development, coordination and publication of divisional policies and procedures, conduct of instruction and training programs on quality matters, and investigation and assessment of the program's effectiveness through the internal auditing program. Personnel from the Product Integrity and Design Assurance Department work with representatives from the other functional departments to assure that activities affecting quality are properly defined, implemented and controlled.

Discussion and resolution of quality matters with the applicant and/or his agent is coordinated with the cognizant project manager and/or Product Integrity and Design Assurance Project Regional Manager. Product Integrity and Design Assurance personnel provide information in response to customer inquiries and audits of Nuclear Technology Division quality assurance activities.

The Product Integrity and Design Assurance Department, as described by the department charter, has been assigned responsibility and authority to identify quality problems in quality-related functions of design, procurement, manufacturing, and testing; to take prompt positive action to limit incipient problems; to initiate, recommend or provide solutions to the problems to responsible management; to verify implementation of the necessary corrective action; to initiate action to: stop work or hold the release of NSSS equipment until proper disposition of unsatisfactory conditions is made.

The Product Integrity and Design Assurance Department is divided into: Design Assurance Operations, QA Engineering, and Nuclear Electrical Equipment and Mechanical Equipment. The efforts of each group are directed by individual managers.

Design Assurance Operations consists of Design Integration, Design Assurance Systems, Systems Compliance, Project Regional Managers and Records and Files Operations. Design Integration has central responsibility for engineering management and control of Principal Design Documentation, Design Bases Documentation and Change Control and the integration of the design documentation and design changes to ensure proper functional design impacts. It is a central point for the transmittal and receipt of technical information to and from other Water Reactor Divisions; identifies and secures necessary approvals and recommendations from appropriate NTD functional engineering organizations; it reviews and evaluates change controls and other design documentation for proper impact, completeness and consistency with established policies and standards; and it tracks and secures disposition of open items both within NTD and with other Water Reactor Divisions. Design Integration does not affect the responsibilities of the functional engineering organizations, which retains design cognizance in their respective areas of responsibility.

Design Assurance Systems has responsibility for: 1) the maintenance of the Water Reactor Divisions Quality Assurance Plan, WCAP-8370; 2) preparation, promulgation and maintenance of division(s)-level policies/procedures; 3) bid proposal review; 4) nondestructive examination and other quality training; and 5) coordinating audits by U.S. Nuclear Regulatory Commission and the ASME.

Systems Compliance has responsibility for: 1) the investigation and analysis of the Division's procedures for compliance with the criteria of 10CFR50, Appendix B as well as other industry and corporate Quality Standards; 2) internal auditing for compliance to established procedures; and 3) coordinating audits by the applicant and others.

The Project Regional Managers are responsible for customer liaison on matters affecting product quality and for the coordination of Product Integrity and Design Assurance activities with the Water Reactor Divisions Project Manager. These regional managers are responsible for monitoring timely implementation and completion of actions on the part of Water Reactor Divisions and suppliers

which are related to the quality of the product for NSSS customers. In addition, these managers provide itinerant product integrity and design assurance support to the Water Reactor Divisions manufacturing divisions through audit and product surveillance.

Records and Files Operations is responsible for: 1) centralized filing operations; 2) Corporate Records Center interface for the Nuclear Center Complex; 3) support to the Projects Department; 4) records systems; 5) forms control; 6) maintenance and control of quality assurance records and computer files; and 7) microfilming of supplier QA data packages.

QA Engineering is responsible for: 1) providing input to Equipment Specifications, drawings and related procurement documents; 2) evaluating supplier quality assurance programs; and 3) auditing of and transmittal to the customer of supplier quality assurance records data packages.

QA Mechanical Equipment and QA Electrical are responsible for surveillance of suppliers of NSSS mechanical and electrical equipment. As part of their surveillance responsibilities, QA Mechanical Equipment and QA Electrical monitor the activities of suppliers, verify conformance to the procurement quality requirements, audit the supplier's quality systems, and release equipment for shipment. Surveillance personnel are trained and qualified to review supplier tests and inspections, and are qualified to SNT-TC-1A requirements in the review, or performance, of nondestructive examinations. Both resident and itinerant quality assurance representatives are employed in surveillance activities. To provide the most effective coverage of suppliers, managers are assigned responsibility for performing equipment surveillance based upon types of equipment.

Responsibility for overseas supplier evaluation and surveillance is normally delegated to other Westinghouse WRC organizations, such as Westinghouse Nuclear International, however such delegation is coordinated by QA Mechanical Equipment and QA Electrical. Additionally, QA Electrical is responsible for Quality Engineering for the planning aspects of the systems applied to NSSS Electrical Equipment and for providing input to Equipment Specifications, drawings and related procurement documents.

The Purchases and Traffic Department and the Resource and Program Management Department provide the Nuclear Technology Division procurement interface with suppliers and other Water Reactor Divisions, except for NFD. These departments administer, as required, the transportation of NSSS components from suppliers' facilities and Water Reactor Divisions manufacturing divisions. This includes the responsibility for providing consulting service to engineering for the purpose of assuring that material and equipment is protected against the hazards of mechanical damage and weather during shipping.

17.1.1.2 WRD Manufacturing Facilities

The WRD Manufacturing Divisions (shown in Figures 17-7, 17-5, 17-8) design, specify, and manufacture nuclear plant equipment within the WRD Manufacturing Divisions scope of supply, as indicated below, based upon functional design requirements provided by the Nuclear Technology Division. The WRD Manufacturing Divisions are: Electro-Mechanical Division - manufacturer of rod drive mechanisms, reactor coolant pumps, loop stop, gate and check valves, etc.; Nuclear Component Division (Pensacola Plant - manufacturer of reactor internals, associated equipment and other NSSS components/Tampa Plant - manufacturer of steam generators, pressurizers and other NSSS components); and Specialty Metals Division - manufacturer of tubing used by Tampa Plant and Nuclear Fuel Division.

The Product Assurance organizations at the manufacturing divisions assure that measures are provided and implemented to verify the quality aspects of the design, manufacture, purchase, inspection, test, packaging, shipment and site installation of the products as applicable. Product Assurance functions include: review of drawings, specifications and procedures; source surveillance and audit of suppliers; performance of inspections, examinations and records results; preparation of documentation associated with the release of product and of quality assurance records for retention; and schedule of and participation in internal audits. In addition, each department is responsible for applicable controls as outlined in the quality program manual(s). Manufacturing is responsible for

generation and control of manufacturing information, production planning and control, fabrication functions including welding, processes qualification and control, qualification of manufacturing personnel. Design control is described in Section 17.1.3.

The Product Assurance Manager reports to the Division General Manager and is responsible for the implementation of the quality assurance program. He has the authority to enforce full compliance with all quality requirements relative to safety, reliability, operation and maintenance. Product Assurance is vested with the authority and responsibility to stop production until acceptable solutions have been provided. The qualification requirements for the position of Product Assurance Manager are:

1. B.S. Degree in Engineering, or equivalent;
2. Eight (8) years experience in a technical field with a minimum of five (5) years in supervisory capacity;
3. Working knowledge of quality assurance techniques, applicable quality related codes, regulations and standards.

Training relevant to quality assurance activities and pertinent to position is described in Section 17.1.2.

17.1.1.3 Nuclear Commercial Operations Division

The Nuclear Commercial Operations Division (NCOD), as shown in Figure 17-4, integrates the marketing and projects functions.

The Domestic Projects Department of NCOD, through a designated Project Manager, has the primary responsibility within WRD for coordination of supply of the NSSS equipment and services to the applicant. The Manager of Product Integrity and Design Assurance, Nuclear Technology Division, is assigned the responsibility for the Nuclear Commercial Operations Division Product Assurance Program.

17.1.1.4 Strategic Operations Division

Strategic Operations Division, as shown on Figure 17-6 has responsibility for design and program management of control board, integrated protection and control systems, instrumentation and process control systems, and other electrical equipment based on functional requirements provided by Nuclear Technology Division. The division also has responsibility for plant simulators, including training of customer personnel.

Within Strategic Operations Division, responsibility for quality assurance activities is assigned to the Product Assurance Department. This includes having lead responsibility to assure that the SOD Quality Assurance Program is adequately defined, documented and implemented. The Manager of Product Assurance reports directly to the Division General Manager and is parallel with the other major departments within the division, as shown in Figure 17-6. Thus, matters pertaining to quality assurance can be related directly from the Product Assurance Manager to the Division General Manager, independent of other functional activities. The qualification requirements for the Product Assurance Manager are the same as the NTD Product Integrity and Design Assurance Manager as noted in Section 17.1.1.1. NTD Design Assurance Operations and NTD QA Electrical provide support to SOD Product Assurance reporting on a matrix basis to SOD Product Assurance.

7.1.1.5 Nuclear Fuel Division

The Nuclear Fuel Division (NFD) has responsibility for the design and manufacture of nuclear fuel assemblies and associated reactor core components such as control rods, burnable poison assemblies, source assemblies and plugging devices. This division is also responsible for specifying and procuring appropriate shipping containers. The organization of this division and a description of the Nuclear Fuel Division Quality Assurance Program is contained in Reference 1 (see 17.1.19).

17.1.1.6 Nuclear Service Division

The Nuclear Service Division's (NSD) major responsibilities are concerned with services to operating plants. Nuclear Service Division is the lead Water Reactor Division for all services (including customer interfaces and quality assurance matters) provided to operating plants. NSD also provides technical advisory services during the design and construction phases of the nuclear power plant. The technical advisory services include initiation of reports of nonconformances

of NSSS equipment during construction as contained in Section 17.1.15. The NSD quality assurance program is contained in a separate document(s).

17.1.1.7 Westinghouse Nuclear International Division

Westinghouse Nuclear International (WNI) has responsibility for the design and procurement of Westinghouse supplied systems, components and services for international projects. Components and services are procured from local manufacturers in the country, and from suppliers and Westinghouse manufacturing divisions in the United States.

17.1.1.8 Functional Responsibility

The functional responsibilities of designing and fabricating fuel and NSSS equipment and the integrated quality assurance responsibilities for both safety and non-safety equipment are shown in Table 3.2-1, Chapter 3, (which is contained in the Safety Analysis Report). The identification of safety-related equipment is also covered in this table.