

**BABCOCK & WILCOX
BARBERTON WORKS
RADIATION SAFETY MANUAL**

PART IV - 10 CFR 71 QA PROGRAM			
Operating Procedure Number	<u>1</u>	Revision	<u>1</u> Date <u>October 26, 1979</u>
Prepared By	<u>H. C. Graber</u>	Page	<u>1</u> Of <u>4</u>
Subject: QA PROGRAM FOR USE OF SHIPPING PACKAGES			

1. ORGANIZATION

- 1.1 The final responsibility for Part 71 requirements rest with The Babcock & Wilcox Co., Power Generation Group, Barberton Works, Nuclear Equipment Division. Establishment, administration guidance of the Radiation Safety Program is a duty of the Radiation Safety Officer (Manager of NDT) appointed by the Quality Assurance Manager and approved by the Vice President.
- 1.2 Organization Charts - Attachment "A"
- 1.3 H. C. Graber - Barberton Works Radiation Safety Officer is responsible for overall administration of the program, training, document control, auditing and radiographer certification. Test status information is delegated, maintained and controlled by the Assistant Radiation Safety Officer, L. J. Elliott, and the Technical Specialist, C. A. Nitschke.
- 1.4 The Radiographers are responsible for handling, storing, shipping, inspection, operation status and record keeping.
- 1.5 Written Instructions
 - 1.5.1 Barberton Works, Radiation Safety Manual, Part I, "Radiation Safety Administration" Operating Procedures.
 - 1.5.2 Barberton Works, Radiation Safety Manual, Part II "Radiation Safety Training" Procedures.

2. Quality Assurance Program

- 2.1 The management of The Babcock & Wilcox Co., Power Generation Group, Barberton Works, Nuclear Equipment Division establishes and implements this Quality Assurance Program.

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- 2.2 Training for all QA functions, prior to engagement in these functions, is required according to written procedures.
 - 2.2.1 Reference: Babcock & Wilcox Co., Barberton Works Radiation Safety Manual, Part II.
 - 2.2.2 Reference: Babcock & Wilcox Co., Radiation Safety Training Manual.
- 2.3 Changes to the QA Program will be by revision to the written procedures with management and NRC approval.
- 2.4 The QA Program will ensure that all deferred QA Procedures,^{*} engineering procedures^{*} and specific provisions of the package design approval are satisfied.
 - ^{*} It should be noted all shipping packages for licensed material are provided by source suppliers. The QA Program shall provide assurance and control that the shipping packages provided meet applicable requirements.
- 2.5 The QA Program shall emphasize control of the characteristics of the shipping package which are critical to safety.
 - 2.5.1 "Procedure for Receipt and Opening of Shipping Packages Containing Licensed Material, Removal and Exchange of Sealed Sources, and Preparation of License Material for Shipment", Babcock & Wilcox Radiation Safety Manual, Barberton Works, Part I.
- 3. Document Control
 - 3.1 All documents related to a specific shipping package will be controlled through the use of written procedures.
 - 3.2 All document changes and revision will be controlled by written procedures approved by management.
 - 3.3 H. C. Graber, Barberton Works Radiation Safety Officer, is responsible for overall document control. Detailed responsibilities for document control are delegated to L. J. Elliott, Assistant Radiation Safety Officer, and C. A. Nitschke Technical Specialist.
- 4. Handling, Storage and Shipping
 - 4.1 Written procedures concerning the receipt, handling, storage and shipping of packages for licensed material will be followed.
 - 4.1.1 Receipt inspection, handling, transporting, removal and exchange of sealed sources and preparation for shipment will be made under supervision of the Radiographic Section Supervisory Personnel.

- 4.1.2 Any shipping package that is damaged upon receipt or after receipt will be isolated and controlled. The source supplier (owner of the shipping package) will be notified and required to provide corrective action.
 - 4.2 Shipments will not be made unless all tests, certifications, acceptances and final inspections are complete.
 - 4.3 Reference: Babcock & Wilcox Radiation Safety Manual, Barberton Works, Part I, Procedure 7.
5. Inspection, Test, and Operating Status
- 5.1 Inspections and operating status of shipping packages for licensed material will be controlled by written procedures.
 - 5.1.1 Babcock & Wilcox Radiation Safety Manual, Barberton Works, Part I, Procedure 7.
 - 5.2 Status will be indicated by log entry.
 - 5.3 Status of nonconforming parts or packages will be positively maintained.
 - 5.4 C. A. Nitschke - Technical Specialist is primarily responsible to perform the regulatory required inspections and tests. Radiation Safety Supervisors may perform regulatory inspections and tests as required. L. J. Elliott, Assistant Radiation Safety Officer is responsible to assure that these functions are performed.
6. Quality Assurance Records
- 6.1 Records will be maintained of the following
 - 6.1.1 Package Approvals
 - 6.1.2 Inspections
 - 6.1.3 Test
 - 6.1.4 Operating Logs
 - 6.1.5 Audit Results
 - 6.1.6 Personnel training and qualifications
 - 6.1.7 Records of shipments
 - 6.1.8 Procurement Documents, e.g. purchase orders for sources.

- 6.2 All records will be maintained, identifiable and retrievable by the written procedures.
- 6.3 Description of the equipment and its operations is maintained in written operating procedures.
 - 6.3.1 Babcock & Wilcox Radiation Safety Manual, Barberton Works, Part I, Procedures 4, 5 and 7.
 - 6.3.2 Babcock & Wilcox Radiation Safety Manual, Barberton Works, Part III Procedures 2, 3, 4 and 5.

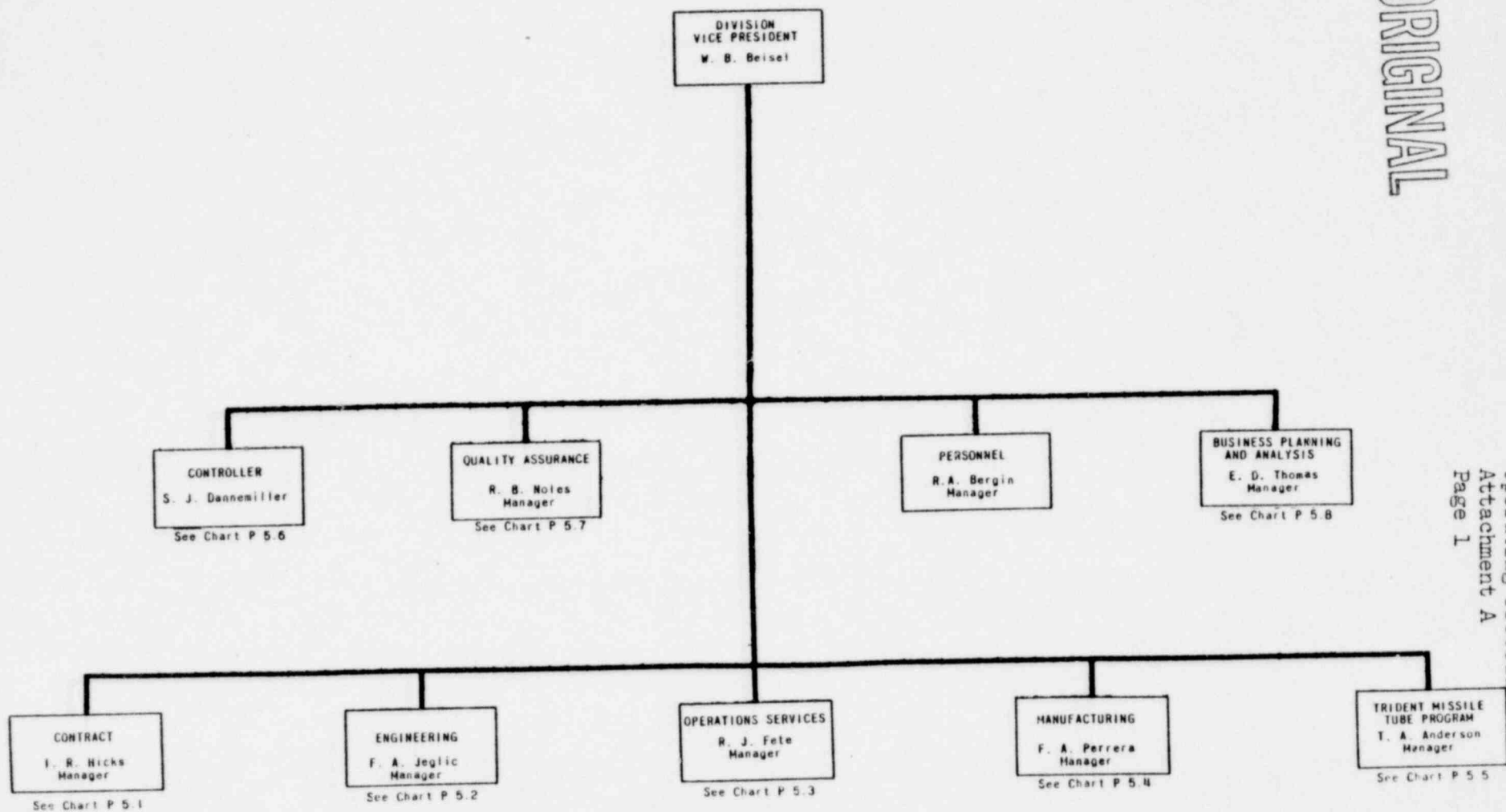
7. Audits

- 7.1 Scheduled audits of the Radiation Safety Program will be conducted by the Works Radiation Safety Officer every six (6) months.
- 7.2 Each quality related activity will be audited at least once each year by an auditor (or audit team) having no responsibility in the activity being audited.
- 7.3 Audits will be performed using a written check list.
- 7.4 Audit reports including details of findings and discrepancies are distributed to Management.
- 7.5 Audit reports are evaluated and the deficient areas corrected.
- 7.6 Audit reports are maintained as part of the Quality Assurance records.
- 7.7 Written Procedures
 - 7.7.1 Babcock & Wilcox Radiation Safety Manual, Barberton Works, Part I, Procedure 1.
 - 7.7.2 Babcock & Wilcox Quality Assurance Procedure 12-QAN-16.

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POWER GENERATION GROUP
NUCLEAR EQUIPMENT DIVISION

POOR ORIGINAL



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Operating Procedure
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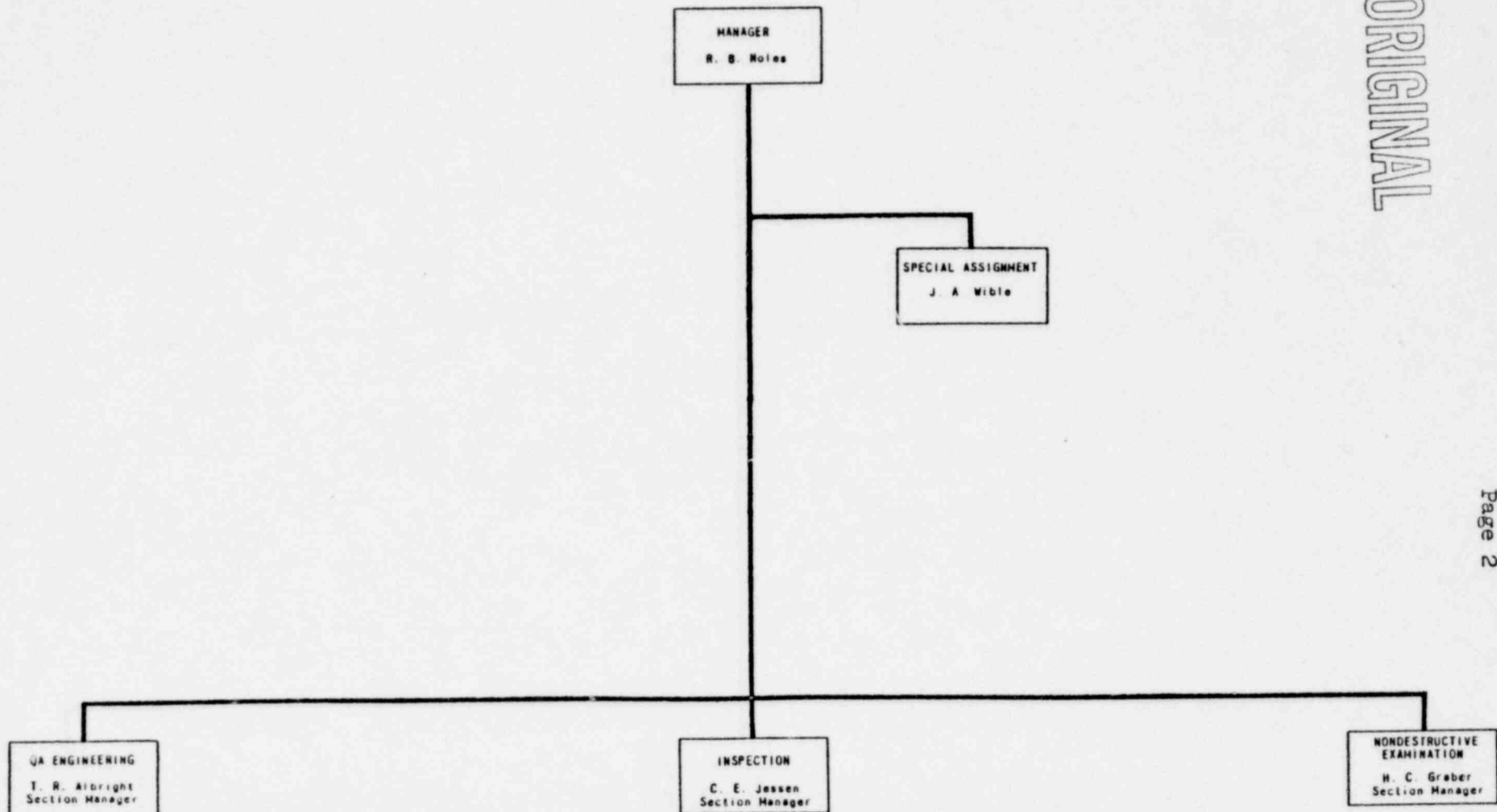
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ORGANIZATION CHART NO. P 5
THE BABCOCK & WILCOX COMPANY

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POWER GENERATION GROUP
NUCLEAR EQUIPMENT DIVISION
QUALITY ASSURANCE

POOR ORIGINAL

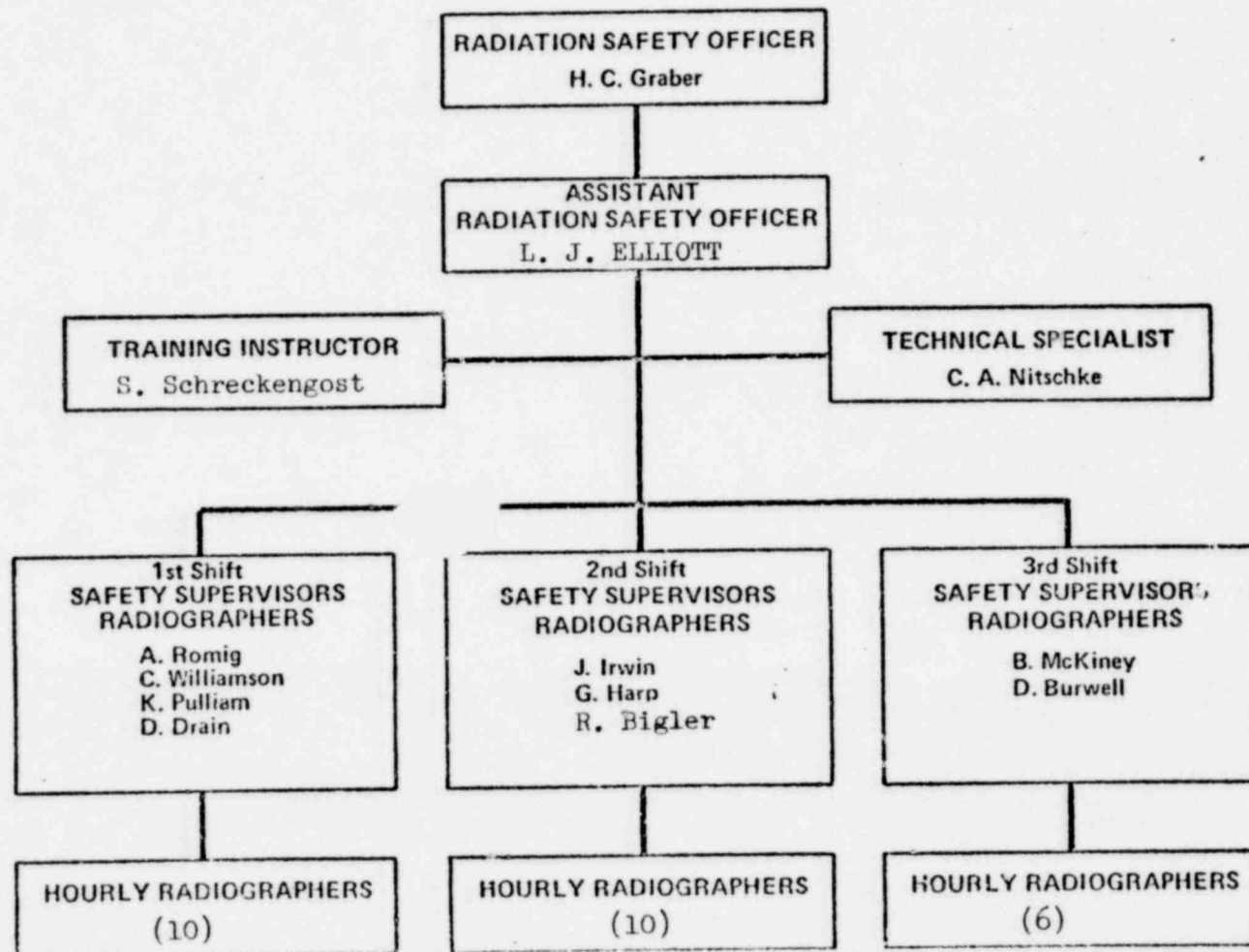


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POWER GENERATION GROUP
 NUCLEAR EQUIPMENT DIVISION, BARBERTON WORKS
QUALITY ASSURANCE
 NONDESTRUCTIVE TESTING
 RADIATION SAFETY

POOR ORIGINAL



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