



FOSTER WHEELER ENERGY CORPORATION
QUALITY ASSURANCE DEPARTMENT
RADIATION SAFETY - QUALITY ASSURANCE
REQUIREMENTS FOR RADIOGRAPHY SOURCE SHIPMENTS

SECT. 7.7
PAGE A
REV. 2
DATE 5-30-79

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1.0 PURPOSE:

The purpose of this procedure is to delineate the FWEC quality assurance program for the shipments of radioactive radiography sources, as required by 10 CFR Part 71.51 and Part 71, Appendix E.

2.0 SCOPE:

This procedure describes the FWEC quality assurance program pertaining to the shipments of radiography sources, as authorized by NRC license 29-03369-03 issued to FWEC pursuant to 10 CFR, Part 34, and Agreement State licenses. It includes the identification of specified responsibilities, document control, use of procedures, records, and audits. This QA program does not include the design and fabrication of radioactive material devices and shipping containers.

3.0 REFERENCE DOCUMENTS:

- 3.1 FWEC "Radiation Administrative Control - Operating and Emergency Procedures" Manual.
- 3.2 FWEC "Radiation Safety Audit Procedure" (Section 7.4),
- 3.3 FWEC "Radiation Safety Training Procedure" (Section 7.5),
- 3.4 FWEC "Radiation Safety-Reports of Defects and Non-Compliance" (Section 7.6).

4.0 ORGANIZATION AND RESPONSIBILITIES:

FWEC, as the licensee, retains the responsibility for this QA program. Specific responsibilities are listed below. Organization charts are found in Reference Document 3.1 above.

- 4.1 It is the responsibility of the "Responsible Management Officials" to assure that a QA program, as described in this procedure, is established, implemented, and maintained as required by 10 CFR, Part 71.
- 4.2 It is the responsibility of the Manager, Quality Assurance to approve changes to the FWEC "Quality Assurance Department-Operating Procedures" Manual, of which this procedure is a part.
- 4.3 The Senior Radiographer (Corporate Radiation Safety Officer) is responsible for:
 - 4.3.1 The overall administration of the QA program
 - 4.3.2 Personnel training and certification
 - 4.3.3 Document control
 - 4.3.4 Auditing
 - 4.3.5 Long-term record retention.

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- 4.4 The Site Radiation Safety Officer is responsible for:
- 4.4.1 Handling, storage, use, and shipping of radioactive material devices
 - 4.4.2 The inspection, test, and operating status of devices
 - 4.4.3 Generation and maintenance of records

5.0 QUALITY ASSURANCE PROGRAM:

The management of FWEC establishes and implements this quality assurance program, which includes the following:

- 5.1 Personnel training for QA and other radiation safety functions will be performed in accordance with written procedures.
- 5.2 QA program revisions will be made in accordance with established FWEC procedures.
- 5.3 The QA program will ensure that radioactive material shipping, handling and storage procedure requirements are being satisfied.
- 5.4 The QA program will emphasize control of items that are critical to radiation safety.
- 5.5 Assurance that radioactive material shipping containers are designed and manufactured under an NRC approved QA program for containers designed or fabricated after July 1, 1978 will be satisfied by receiving a written certification to this effect from the manufacturer.

6.0 DOCUMENT CONTROL:

- 6.1 Documents related to shipping containers will be controlled in accordance with written procedures.
- 6.2 Documents used in the receiving, use, and shipping of radioactive material will be controlled in accordance with written procedures.
- 6.3 Radiation Safety Procedure changes will be approved by the Senior Radiographer.

7.0 HANDLING, STORAGE, AND SHIPPING:

- 7.1 The handling, use, storage, and shipping of radioactive material will be performed in accordance with NRC approved written procedures.
- 7.2 Source shipments will not be made until all tests, certifications, inspections, and other procedure requirements are completed.

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8.0 INSPECTION, TEST, AND OPERATING STATUS:

- 8.1 The inspection, testing, and determination of operating status of devices will be performed in accordance with NRC approved written procedures.
- 8.2 The operating status of devices shall be documented and devices marked in accordance with written procedures.
- 8.3 Devices found to be in non-conformance will be identified as such and segregated, and the Senior Radiographer notified in accordance with written procedures.

9.0 RECORDS:

- 9.1 The following records will be maintained in accordance with written procedures:
- 9.1.1 Device Certificates of Compliance, with any required drawings and references
- 9.1.2 Personnel training and certification records
- 9.1.3 Audit results
- 9.1.4 Device inspection, maintenance, and receiving/shipping records
- 9.1.5 Written procedures
- 9.2 Records will be identifiable and retrievable.
- 9.3 A list of the required records and their storage location will be maintained.

10.0 AUDITS:

- 10.1 Audits will be performed at set frequencies as part of the Radiation Safety program, as per Reference Document 3.2. As a minimum, audits will be annual.
- 10.2 Audit results will be maintained and reported to management.
- 10.3 Audit results will be evaluated and open item follow-ups will be done in accordance with written procedures.
- 10.4 Audits will be dependent on the radiation safety significance of the of the activity being audited.
- 10.5 Audits concerning Radiation Safety will be performed by personnel having no direct responsibility in the area being audited.

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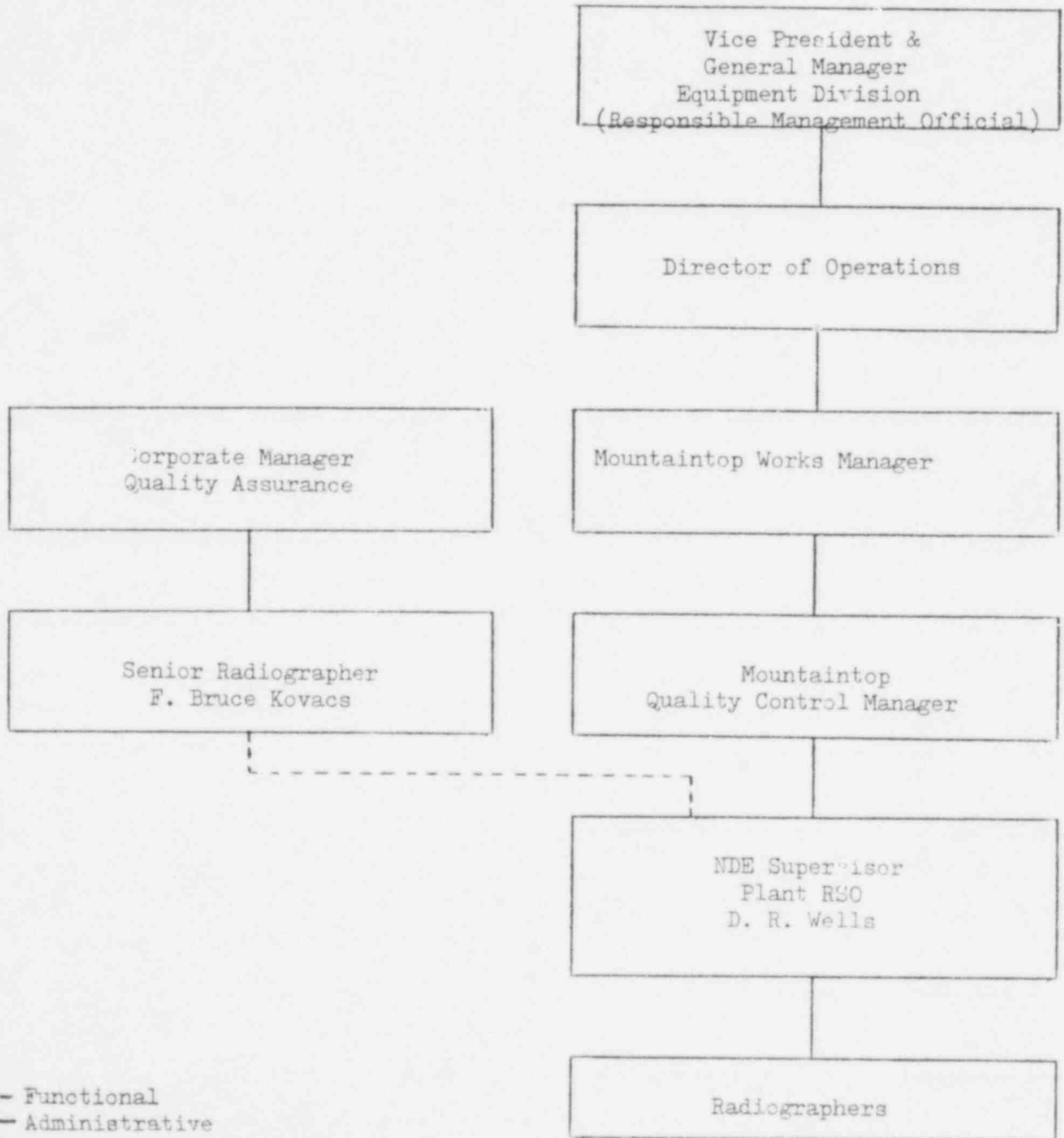
RADIATION ADMINISTRATIVE CONTROL —
 OPERATING AND EMERGENCY PROCEDURES

TITLE

ORGANIZATION CHART - RADIATION SAFETY

FORM (187) - 11

MOUNTAINTOP PLANT



----- Functional
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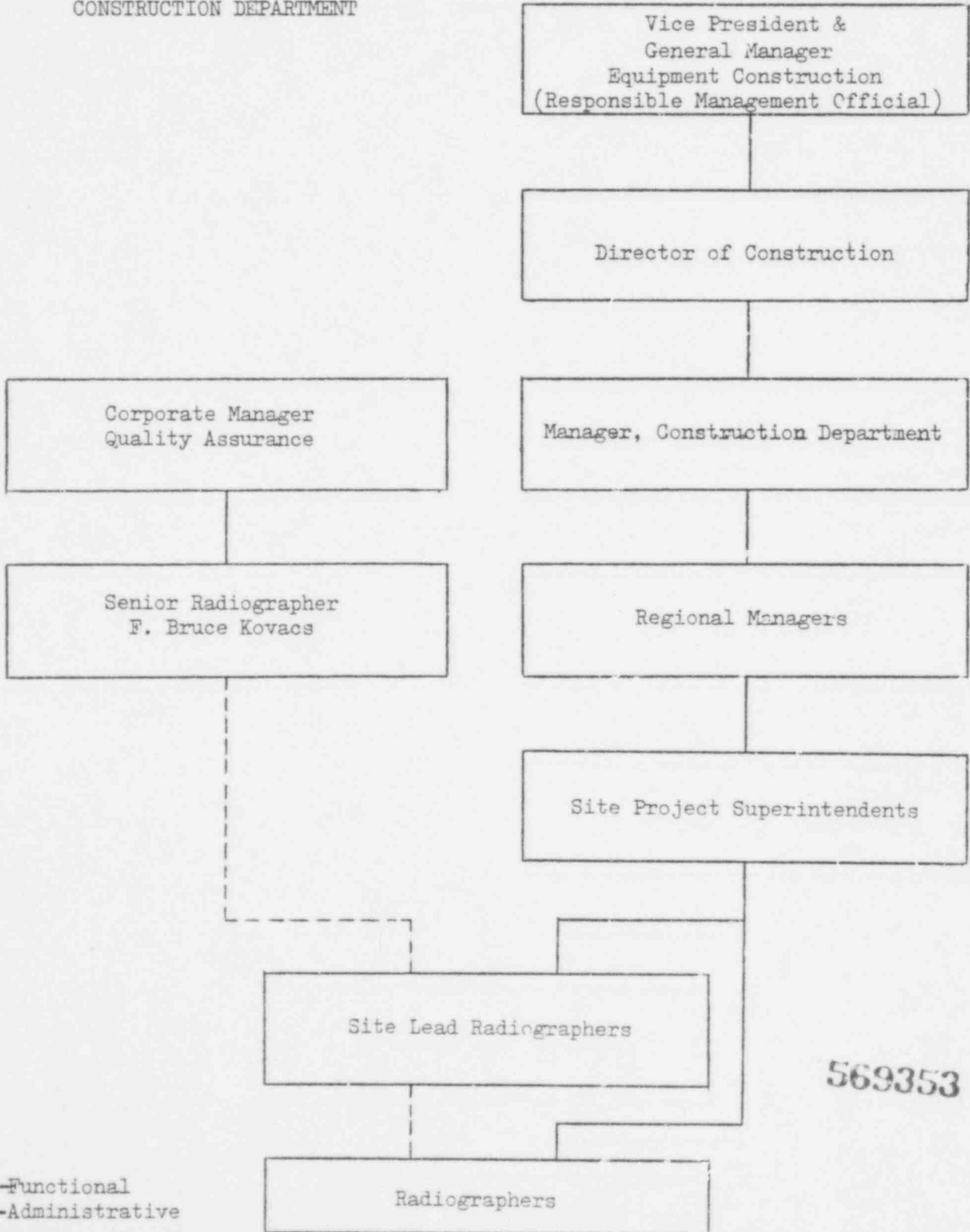
RADIATION ADMINISTRATIVE CONTROL --
 OPERATING AND EMERGENCY PROCEDURES

TITLE

ORGANIZATION CHART - RADIATION SAFETY

FORM (167) - 11

CONSTRUCTION DEPARTMENT



--- Functional
 — Administrative

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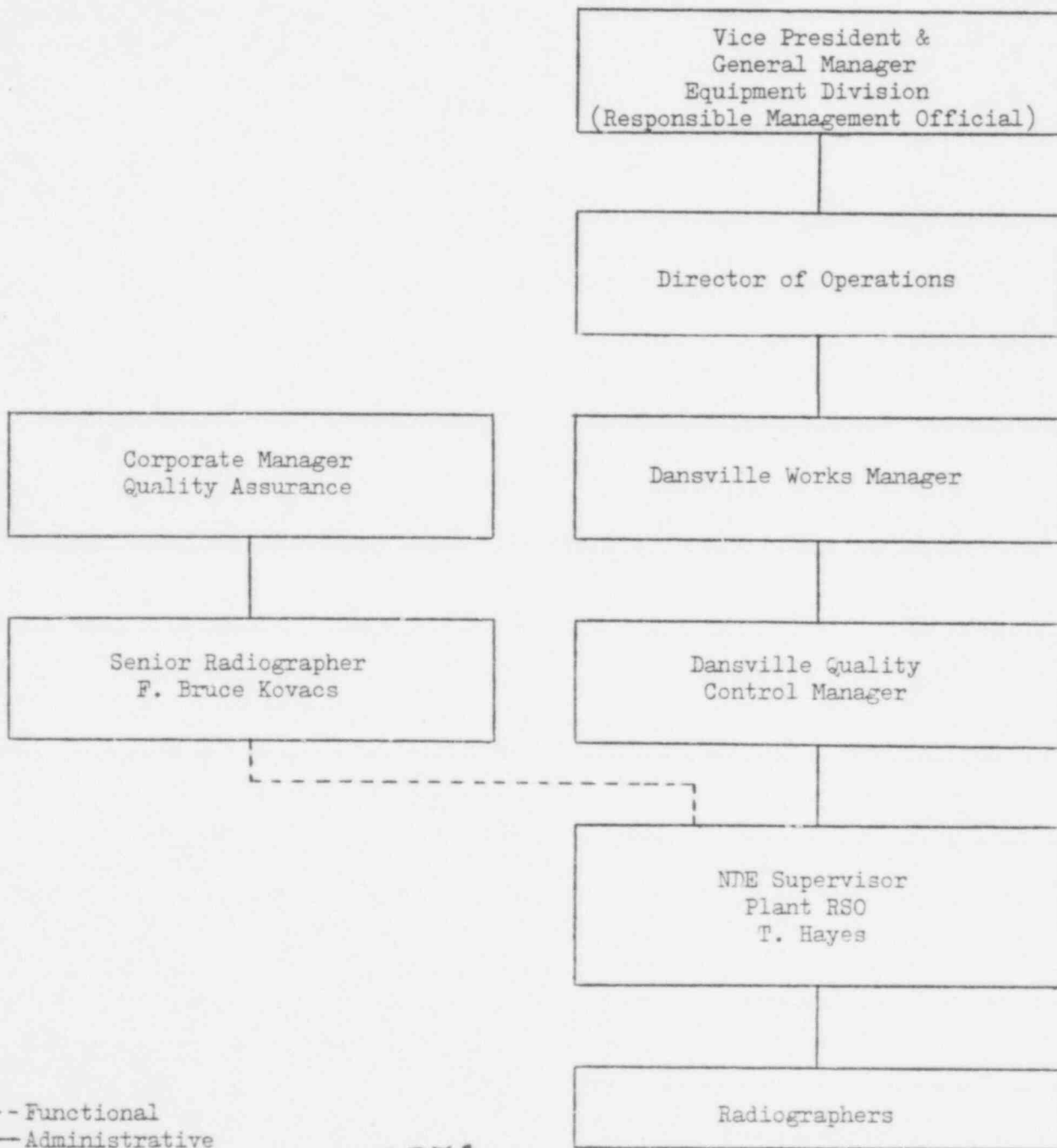
RADIATION ADMINISTRATIVE CONTROL —
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TITLE

ORGANIZATION CHART - RADIATION SAFETY

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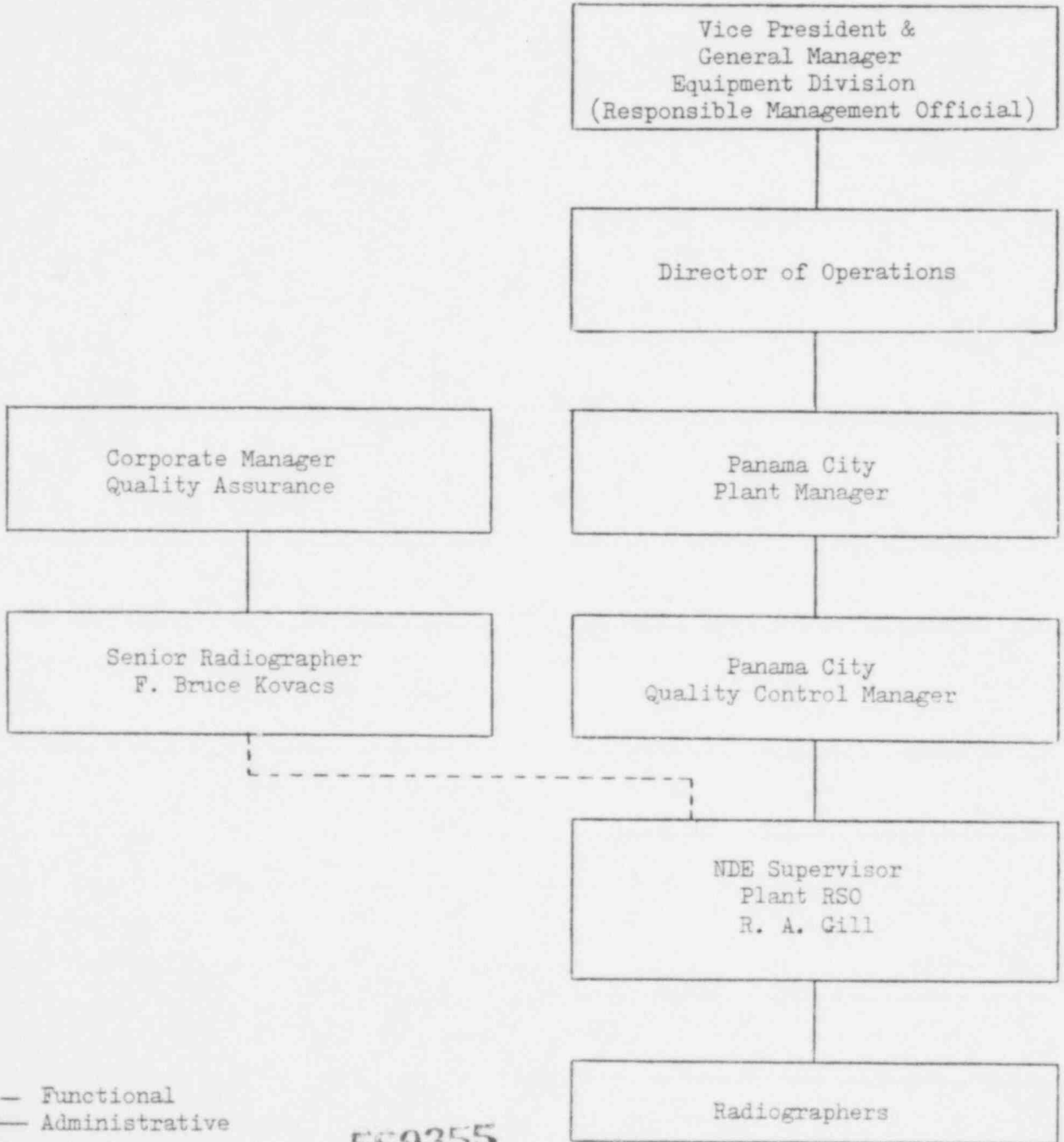
RADIATION ADMINISTRATIVE CONTROL —
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TITLE

ORGANIZATION CHART - RADIATION SAFETY

FORM (167)-11

PANAMA CITY PLANT



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