

ATTACHMENT 4 TO JPN-85-55

Engineering Design Procedure 16
Procedure for Technical Review
of Procurement Documents

New York Power Authority
James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333

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NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
ENGINEERING DESIGN PROCEDURE

TITLE: PROCEDURE FOR TECHNICAL REVIEW OF PROCUREMENT DOCUMENTS PROC. NO.: EDP-16

PREPARED BY: Victor M. Walz / Mogens Hansen
VICTOR M. WALZ/MOGENS HANSEN

DATE 6/18/85

TITLE: SENIOR PLANT ENGINEER/PLANT ENGINEER

APPROVED BY: Victor M. Walz by direction
TECHNICAL SERVICES SUPT.

DATE 6/18/85

CONCURRED BY: Lincoln C. Johnston by direction
QUALITY ASSURANCE SUPT.

DATE 6/19/85

APPROVED BY:

by dir. R. Lamm
RESIDENT MANAGER

DATE 6/19/85

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1.0 PURPOSE

- 1.1 To provide instructions and guidance for performing and documenting technical reviews of procurement documents for Quality Assurance Category I and M material. This procedure may also be used for review of QA Category II and III procurement documents at the discretion of plant management.
- 1.2 To provide instructions for evaluating the acceptability of Commercial Grade Items (CGI) for use as spare and replacement components and parts in QA Category I and M applications.
- 1.3 To provide instructions for review and update, as required, for the warehouse stock records system parts description.
- 1.4 To provide a mechanism for initiating the appropriate engineering support activities, such as modifications and nuclear safety evaluations, when original part numbers and designs are obsolete, superseded or components are upgraded.

2.0 REFERENCES

- 2.1 Work Activity Control Procedure 10.1.4 (latest revision) - Procurement of Materials and Services
- 2.2 Quality Assurance Procedure (QAP) 4.1 (latest revision) - Procurement Document Review
- 2.3 Quality Assurance Instruction (QAI) 6.1 (latest revision) - Procurement Document Review
- 2.4 Engineering and Design Procedure (EDP) 12 (latest revision) - Procedure for Establishing Quality Assurance Category Classifications
- 2.5 Work Activity Control Procedure 10.1.6 (latest revision) - Control of Modifications, Component Changes, and Safety and Environmental Impact Evaluation Reports
- 2.6 Code of Federal Regulations, 10CFR50, Appendix B and 10CFR21

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2.7 ANSI Standard N45.2.11 (1974) - Quality Assurance Requirements for the Design of Nuclear Power Plants

2.8 USNRC Regulatory Guide 1.64 (Oct. 1973) - Quality Assurance Requirements for the Design of Nuclear Power Plants

3.0 DEFINITIONS

3.1 Qualified Technical Reviewer - Personnel who by experience and/or training, are competent in the technical design requirements of nuclear power plant system design, component design, plant design criteria, materials, and equipment qualification.

3.2 Commercial Grade Item (CGI) - A component or material item which is to be used in plant QA Category I applications and is to be ordered from the manufacturer/supplier on the basis of specifications set forth in the manufacturer's published product description (e.g. catalog). CGI material is not normally fabricated to a QA program meeting the requirements of 10CFR50, Appendix B or ANSI N45.2 and the reporting requirements for defects of 10CFR21 do not apply. In order to use CGI components in QA Category I or M applications, a technical review must be conducted to ensure that technical requirements are met and the item can be dedicated for a specific system/component application.

4.0 RESPONSIBILITIES

4.1 Technical Services Superintendent

4.1.1 Responsible for the technical review of all QA Category I and M procurement documents for plant equipment and services per this procedure. These procurement documents may include the requisitions for the following:

- a. Warehouse stock material
- b. Direct turnover material for modifications, if specifications are not provided by the responsible design organization.

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c. Direct turnover material requisitioned
 by the applicable department
 superintendent (Maint., I&C, and RES).

4.1.2 Responsible for initiating and preparing
 modifications per reference 2.5 should the
 procurement process result in design and
 document changes which are defined as a
 modification.

4.1.3 Responsible for initiating, authorizing, and
 verifying changes to the technical descrip-
 tion for stock items in the warehouse stock
 data base. The changes will include the
 additions and deletions of technical require-
 ments based on the design requirements for
 the material being ordered.

4.1.4 Responsible for the filing and retention of
 procurement document technical reviews.

4.2 Department Superintendents

4.2.1 All Department Superintendents who authorize
 the procurement of QA Category I and M plant
 equipment and services are responsible for
 ensuring that the technical review defined in
 this procedure is correctly performed by a
 qualified technical reviewer or that the
 Technical Services Department is requested to
 perform this review.

4.2.2 Responsible for forwarding completed procure-
 ment document technical reviews to the
 Technical Services Department for approval.

4.3 Site Manager of Finance

4.3.1 Responsible for the updating of technical re-
 quirements in the warehouse stock records
 data base upon receiving authorization from
 the Technical Services Department and the
 Quality Assurance Department.

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4.3.2 Maintaining the required security for stock
 item component descriptions to ensure that
 only properly reviewed and authorized changes
 are made.

4.4 Quality Assurance Superintendent

4.4.1 Responsible for the review of and concurrence
 with procurement document technical review.

5.0 PROCEDURE

5.1 Perform a technical review of procurement documentation
 (purchase requisitions or purchase orders) using the
 Enclosure 6.1 (Part I) titled: "Procurement Document
 Technical Review Summary". Obtain a serial number for
 the review from the Technical Services Department.

5.2 Perform the technical review based on the technical
 requirements for the components as established by the
 existing plant documentation which may include, but not
 be limited to, the following:

- 5.2.1 Plant design drawings (controlled)
- 5.2.2 Vendor equipment/component technical manuals
- 5.2.3 Environmental and seismic qualification test
 reports and evaluation sheets
- 5.2.4 Original plant design and procurement speci-
 fication (AP, APO, GE Specification, etc.)
- 5.2.5 New or revised plant design and procurement
 specifications
- 5.2.6 JAFNPP Final Safety Analysis Report (FSAR)
- 5.2.7 Other plant design documents, as necessary
- 5.2.8 JAFNPP Component QA Category List
- 5.2.9 JAFNPP Modification Packages
- 5.2.10 Piping and pressure vessel design codes

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- 5.2.11 JAFNPP Technical Specification
- 5.2.12 Previous purchasing documentation
- 5.2.13 Other known regulatory requirements.
- 5.3 Confirm the system and component applicability as stated on the procurement documents. If additional system and component applications are known or are determined during the technical review, add these to the procurement document and the Enclosure 6.1 (Part A) form.
- 5.4 Verify that the quality assurance category is as stated on the component QA Category List. If the QA Category is not known or if there is any question relative to the correct category, perform a QA classification evaluation per reference 2.4.
- 5.5 Procurement requirements consist of all technical and quality assurance requirements which the item being ordered must meet in order to be used in the plant. These requirements must be included on the purchase order.

Verify that the component description and any required technical and quality requirements resulting from the Enclosure 6.1 technical review are clearly stated on the procurement document. All design requirements, part numbers, test requirements, etc. should be stated as part of the description of the item being procured. Refer to reference 2.1 for the proper format for the material descriptions. Ensure that all seismic, environmental, hydrostatic, material, and examination (NDT) test requirements are specifically stated or the governing specification is stated.

5.6 Commercial Grade Items

- 5.6.1 Commercial Grade Items (CGI) may be utilized in QA Category I and M applications provided they meet all of the applicable technical requirements. To establish if CGI equipment is acceptable for use in QA Category I or M applications, perform a technical evaluation using the Enclosure 6.1 (Part II) form

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titled: "Evaluation and Dedication of Commercial Grade Items for Safety-Related Applications".

This evaluation form may be used for procurement purposes or for dedication of existing warehouse stock.

- 5.6.2 Perform the Part II evaluation for the acceptability of using a CGI based on a technical review of the plant design documentation listed in Section 5.2 of this procedure.
- 5.6.3 If the Part II evaluation confirms the acceptability of the use of a CGI for the specified system and component application, complete the appropriate spaces on the form and sign including name, date, and title.
- 5.7 Prepare changes to the procurement documents, which are now required based on the completed technical review.
- 5.7.1 Stock Items - initiate a change to the warehouse stock system data base per reference 2.1.
- 5.7.2 Purchase Requisition - initiate a revised purchase requisition.
- 5.8 Forward the completed Procurement Document Technical Review Summary (Parts I and II) and Attachments (original or revised procurement documents) to Quality Assurance for concurrence. Following concurrence and signing, the summary is returned to the Technical Services Department.
- 5.9 If during the procurement document technical review process, it is determined that the material being procured is no longer available, obsolete, or has been upgraded by the vendor, initiate and complete appropriate modification documentation per reference 2.5 in parallel with changing the stock records or revising the purchase requisition.
- 5.10 Completed procurement document technical reviews shall be retained and filed in the Technical Services Department.

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6.0 ENCLOSURES

6.1 Procurement Document Technical Review Summary

Part I - Technical Description and Component Appli-
 cability

Part II - Evaluation and Dedication of Commercial Grade
 Items (CGI) for Safety-Related Applications

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ENCLOSURE 6.1

Review No. _____

PROCUREMENT DOCUMENT TECHNICAL REVIEW SUMMARY

Part I - Technical Description and Component Applicability

A. General

1. Purchase Req. No. _____
2. Item No.(s) _____
3. Stock No.(s) _____
4. QA Cat. _____
5. Material Description (attach additional info. by item number if necessary.)

B. Component Applicability

1. System(s): _____
2. Component ID(s): _____

(Attach List if Necessary)

3. Environment Harsh (1EH) YES/NO
Mild (1EM) YES/NO
4. Seismic Design Requirements YES/NO

C. Specifications/Design Requirements

1. Original Plant Specification (AP, APO, CWO, GE, etc.)

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ENCLOSURE 6.1

Review No. _____

PROCUREMENT DOCUMENT TECHNICAL REVIEW SUMMARY (contd.)

Part I - Technical Description and Component Applicability

C. (Cont'd.)

2. Previous Order No. _____
3. Applicable Plant Dwgs. _____
4. Applicable Technical Manual _____

D. Technical Requirements Evaluation (Circle Correct Response)

1. Material technical description is complete/accurate. YES/NO/NA
2. Complete item part number/drawing is specified including revision. YES/NO/NA
3. Seismic design requirements apply. YES/NO
 - a. Seismic testing/qualification specified or specification invoked. YES/NO/NA
 - b. Seismic analysis performed and available. YES/NO/NA
4. Environmental qualification requirements for harsh environments (1EH) apply. YES/NO
 - a. EQ testing/qualification requirements specified or specification invoked. YES/NO/NA
 - b. EQ test report on file and reviewed. YES/NO/NA
State title or EQ File Reference No.:

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Review No. _____

PROCUREMENT DOCUMENT TECHNICAL REVIEW SUMMARY (contd.)

Part I - Technical Description and Component Applicability

D. (contd.)

- | | | |
|-----|---|-----------|
| 5. | Applicable design and/or material codes and standards are specified or specification invoked. | YES/NO/NA |
| 6. | Non-destructive testing requirements are specified for pressure boundary parts, i.e. RT, UT, MT, and PT or specification invoked. | YES/NO/NA |
| 7. | Hydrostatic or pneumatic test requirements are specified or specification invoked. | YES/NO/NA |
| 8. | Material traceability requirements are specified, i.e. CMTR. | YES/NO/NA |
| 9. | Applicable packing/shipping requirements are specified or invoked by specification. | YES/NO/NA |
| 10. | JAFNPP warehouse storage requirements are specified. | YES/NO |
| 11. | Material post-fabrication functional or operability testing specified or invoked by specification. | YES/NO/NA |
| 12. | Calibration requirements specified or invoked by specification. | YES/NO/NA |
| 13. | For radiation area applications, non-metallic materials are suitable for the specified application. | YES/NO/NA |
| 14. | Non-metallic materials reviewed to ensure adequate shelf-life and operational life times. | YES/NO/NA |

Shelf Life _____ (if multiple items, attach list.)

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PROCUREMENT DOCUMENT TECHNICAL REVIEW SUMMARY (contd.)

Part I - Technical Description and Component Applicability

D. (contd.)

10. Additional technical requirements or discussion: _____

E. Quality Assurance Requirements Evaluation (Circle correct response - if item is N/A - must complete Part II)

1. Vendor QA program meets 10CFR50, App. B and ANSI N45.2. YES/NO/NA

a. QA program reviewed by NYPA/Case Register/or other evidence of an approved QA Program. YES/NO/NA

b. QA program requirements specified or invoked by specification. YES/NO/NA

2. 10CFR21 invoked by QA program or by procurement documents. YES/NO/NA

3. Additional quality assurance requirements/comments _____

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PROCUREMENT DOCUMENT TECHNICAL REVIEW SUMMARY

Part I - Technical Description and Component Applicability
(contd.)

F. Documentation Requirements Evaluation

1. Certificates of conformance or compliance for the following areas are specified or invoked by specification as applicable:
 - a. QA program requirements. YES/NO/NA
 - b. Material code certifications (CMTR, if applicable). YES/NO/NA
 - c. Procurement specification technical requirements including environmental qualification and seismic. YES/NO/NA
2. Post-fabrication functional, operational, hydrostatic, or calibration test reports are specified or invoked by specification, as applicable. YES/NO/NA
3. Additional documentation requirements _____

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PROCUREMENT DOCUMENT TECHNICAL REVIEW SUMMARY

Part I - Technical Description and Component Applicability
(contd.)

Prepared by: _____ Date _____

Title: _____

Concurred by: _____ Date _____
QA Superintendent

Approved by: _____ Date _____
Technical Services Supt.

Attachments

1. Attach reviewed/updated procurement description requirements or revised purchase requisition to this review form.
2. Attach any supporting technical information used as a basis for this evaluation which is not readily available in the plant's document/drawing retrieval systems. This should include vendor letters, telecons, memos, etc.

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PROCUREMENT DOCUMENT TECHNICAL REVIEW SUMMARY

Part II - Evaluation and Dedication of Commercial Grade
Items (CGI) for Safety-Related Applications

A. General

1. Purchase Req. No. _____
2. Item No.(s) _____
3. Stock No.(s) _____
4. QA Cat. _____
(original P.O. if applicable)
5. Material Description (attach additional info. by item number if necessary.)

Refer to Part I for reference drawings and other design documents or attach list, if Part I not required.

B. Component Applicability

1. System(s): _____
2. Component ID(s): _____

C. Evaluation (circle correct response)

1. The item is not unique to facilities or activities licensed by the NRC. YES/NO
2. The item is a replacement-in-kind for the original or existing item, i.e. no modification is required. YES/NO

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Part II - Evaluation and Dedication of Commercial Grade
Items (CGI) for Safety-Related Applications (contd.)

C. (contd.)

3. The item is manufactured in quantity to a published manufacturer's fixed design and quality requirements. YES/NO

4. The item is specified and described in a manufacturer's published product description, e.g. catalog . YES/NO

Vendor Name _____

Catalog No. _____ Date _____

5. The item requires no supplier documentation. YES/NO

6. The item is identifiable by physical marking, tagging, or containerization. YES/NO

7. The use of this item will not impact the seismic qualification of any plant equipment. YES/NO

Basis _____

8. The use of this item will not impact the environmental qualification of any QA Class I (EH) electrical equipment. YES/NO

Basis _____

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Part II - Evaluation and Dedication of Commercial Grade
Items (CGI) for Safety-Related Applications (contd.)

D. Additional information _____

E. Conclusion - The items/materials under review may be
procured as a Commercial Grade Item(s) and
are authorized to be dedicated for the stated
application upon acceptance by QC receipt
inspection.

Prepared by: _____ Date _____

Title: _____

Concurred by: _____ Date _____
QA Superintendent

Approved by: _____ Date _____
Technical Services Supt.

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