




NIAGARA MOHAWK POWER CORPORATION



STONE & WEBSTER ENGINEERING CORPORATION

SWEC PROJECT PROCEDURE		
NINE MILE POINT - UNIT 2		
TITLE: PROJECT SPECIFICATION AND PROCUREMENT PROCEDURES	NUMBER: SWEC PP 3	REVISION: 9
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APPROVAL: SWEC 		3-30-84 DATE

CHOC 2112

I. PURPOSE

This procedure consolidates the requirements for project specification preparation and procurement-related activities contained in corporate Engineering Assurance Procedures (EAPs), the Corporate Specification Preparation Manual (SPM), approved deviations to corporate standards, and other project procedures, including selected Construction Site Instructions (CSIs).

II. SCOPE

This procedure covers Engineering and Purchasing activities from preparation of a bid specification through placement of a purchase order, as well as preparation of addenda and revisions through the purchase order memo of changes. It also encompasses CHOC and site preparation of specifications, addenda, and revisions in support of Site-administered contracts and force account work. It does not cover procurement activities associated with contracts for construction services, beyond the preparation of specifications, changes thereto, and the initiation of purchase requisitions. Those activities are described in CSIs 16.10 and 16.12.

III. PROCEDURAL DETAILS

- A. For specifications involving field labor, prior to initiating any specification activity, the responsible Engineer shall consult with the Project Construction Specialist to determine whether the scope of work could be added to an existing specification. He should also determine whether the scope of work should include

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the furnishing of equipment/material only, furnishing and installation, or installation only. Also, in all cases involving installation work, determine whether the installation will be performed by a contractor or by SWEC.

- B. In an effort to fulfill the intent of EAP 4.1 when a technical discussion with an existing Vendor or a proposed supplier ultimately results in the need for a pricing quotation, the Engineer must advise the Seller to call the responsible Buyer to obtain the proper instructions regarding how to prepare his quotation. The Engineer will provide to the Seller the telephone number at which the aforementioned Buyer can be reached and will suggest that this contact be made as soon as possible and definitely prior to submission of a priced proposal. It is recommended that the Engineer discuss with the Buyer, prior to his discussion with the Vendor, the possibility of this situation occurring, getting the proper telephone number and possibly some helpful suggestions that can be utilized in his discussion.
- C. Changes associated with electrical or mechanical equipment which require environmental and/or dynamic qualification can potentially impact the qualification of that equipment. In order to properly evaluate the effects of such changes, effective immediately, the requirements for review of specifications or revisions or addendums to specifications contained in Project Procedure (PP) 94 shall supplement the requirements of PP 3, Project Specification and Procurement Procedure. The scope of changes with potential impact on qualification is also contained in PP 94.
- D. When specifications (erection) are prepared at the site, CHOC counterparts at the site may review the specifications. After review, the specifications are sent back to CHOC for coordination through the Word Processing Center and signoff.
- E. If working notations are recorded on Controlled copies of specifications and such notations are utilized, the responsible party will initial and date his notations at the time he records them on the specification.
- F. Preparation of Bid Specification (Reference Section 6 of the SPM)
The responsible Engineer shall:
 - 1. Request a master specification from the Word Processing Center (WPC) or the appropriate Equipment Specialist. The specialist should be contacted to verify that the master specification contains up-to-date information.

2. Determine Project requirements, such as capacity, size, performance conditions, and other data not available at the time of master specification preparation.

Appendix 6.4 of the SPM provides a statement to be added to the scope of ASME III specifications when any information required by the NMP2 ASME III QA Program Manual, Section 5, paragraph 1.1, is lacking. The two sources mentioned above are reprinted below in their entirety.

a. ASME III Manual, Section 5, as Amended by Appendix S/NMP

The Owners' Design Specification is a document containing the requirements of components, appurtenances, or component supports and is documented in sufficient detail to provide a complete basis for construction in accordance with the Code. Construction, as used in the Code, is an all-inclusive term comprising materials, design, fabrication, examination, testing, inspection, and certification required in the manufacture and installation of items. Design specifications include, as appropriate:

- 1) Functions and boundaries of the items covered.
- 2) Design requirements, including all required over-pressure protection requirements.
- 3) Environmental conditions, including radiation.
- 4) Code classification of the items covered.
- 5) Material requirements, including impact test requirements.
- 6) When operability of a component is a requirement, reference shall be made to other appropriate documents which specify the operating requirements.
- 7) Effective Code edition, addenda, and Code cases. The effective code for NMP2 piping fabrication and installation is the 1974 Code, no addenda, with updating to later code editions/addenda as required by the design specification.
- 8) All other detail requirements, by applicable class, specified by the Code to be included in the design specifications.

b. Appendix 6.4

Add the following statement to the SCOPE subsection if the design specification is incomplete when issued:

Certain information required by ASME III, NCA-3250, is unavailable at the time of issue of this design specification. As this information becomes available, it will be added to this specification by addenda or revision and will be available to the Authorized Code Inspector in accordance with NCA-3256.

List the applicable subsections of the specification and the types of information unavailable at the time the design specification is prepared.

3. Obtain the project standard base document from the Administrative Assistant in Document Control. The Document Identification Numbers (DINs) for the standard base document are as follows:

chm-12177-708c	Specification Cover Sheet
chm-12177-708d	Specification Organization Page
chm-12177-708e	Section 1 - Information and Requirements
chm-12177-708f	Section 2 - Technical Data by Bidder

4. Obtain the appropriate supplemental standard inserts from the Administrative Assistant in Document Control. The DINs for the supplemental standard inserts are as follows:

chm12177-500ab	Marking (ASME VIII and ASME III requirements)
chm12177-500ac	Marking (no ASME requirements)
chm12177-500ai	Documentation
chm12177-500bc	Insert Specification for Alternating Current Induction Motors - for Motors Less than 250 hp and Purchased with the Driven Equipment (for motors greater than 250 hp, see Lead Electrical Engineer for technical requirements)
chm12177-500co	Connections (for piping)
chm12177-500dd	Conditions of Service (for motor-operated valves)

chm12177-500cc	Excluded Equipment List
chm12177-500g	Quality Assurance (for QA Category I procurement specifications)
chm12177-500h	Quality Assurance (QA Categories II and III)
chm12177-500hwa	QA Category I Nondestructive Test Requirements
chm12177-500hwb	QA Category I Ultrasonic Examination
chm12177-500hwc	QA Category I Establishment of Hold Points
chm12177-500i	Tests
chm12177-500j	Inspections
chm12177-500ka	Nonengineered Items
chm12177-500q	Site Quality Assurance Program (for erection specifications issued to contractors)
chm12177-500qa	Quality Assurance (for QA Category I erection specifications under SWEC QA Program)
chm12177-500qb	Quality Assurance (for QA Category IIA erection specifications under SWEC QA Program)
chm12177-500qc	Quality Assurance (for QA Categories II and III under SWEC QA Program)
chm12177-500qd	Quality Assurance (for preengineered items)
chm12177-500s	Quality Assurance (for QA Category IIA)
chm12177-500ta	Instructions for Insertion of Shop Painting Outside Primary Containment (except Electrical and Structural equipment)
chm12177-500t, u, v, w, x, y, z	Shop Painting (for use in accordance with in- structions in chm-12177-500ta)
chm-12177-710a	Equipment Seismic/Nonseismic Qualification Requirements
chm-12177-710b	Section 1 - Seismic Require- ments (QA Category I)
chm-12177-710c	Section 2 - Seismic and Nonseismic Vibration Require- ments (QA Category I)
chm-12177-710d	Section 3 - Commercial Seismic Requirements (QA Category I)

chm-12177-710e

Section 4 - Seismic, S/RV,
and Chugging Data Sheet
(Regulatory Guides 1.60 and 1.61)

5. Prepare the project specification by using Section 6 of the SPM, except for the QA, Inspection, and Documentation sections.

- a. To insert sections from the master specification or the supplemental standard inserts into the standard base document, insert the DIN of the document plus the line numbers in the appropriate location in the base document (or other documents being marked up). As you mark up the standard base document, attach a copy of the material you wish to add to the appropriate page. The WPC operator and proofreader will be unable to verify that the correct material has been added without this attachment.

NOTE: Inserted material that is already in the computer must be identified with a DIN and line numbers.

- b. Note that the standard base document includes instructions to preparers and references to supplemental standard inserts. The sections which are not applicable to the new specification should be deleted.
- c. When a conflict exists between the master specification and the project standard wording, the project standard wording shall be used.
- d. The preparer or reviewer may not make changes to the approved standard wording. WPC will not accept these changes. If revisions to any standard wordings are necessary, consult the Administrative Assistant in Document Control, who is responsible for maintaining up-to-date standards.
- e. Changes to CHOC numbered specifications (e.g., DIN with a ch- prefix) may be made only through the CHOC WPC.
- f. The words "review specification" or "bid specification" shall not appear on the specification.

6. Specification numbers are based on Corporate Standard C-5 and consist of the following:

<u>NMP2</u>	-	<u>X</u>	<u>0</u>	<u>00</u>	<u>X</u>
Project Prefix		Division	Discipline	Equipment Type	Specific Equipment

Use of a specification number other than those listed in the corporate standard must be coordinated with Engineering Assurance and Document Control.

G. Preparation and Approval of Bidders List

1. After reaching an agreement with the equipment specialist concerning potential acceptable suppliers, the responsible Engineer will prepare a Preliminary List of Bidders using the Recommended Bidders List (Form 4546.9C).
2. This list must be compatible with the objectives of NMPC's minority purchasing program. A list of minority vendors/contractors that have been qualified by NMPC is available in the SWEC Purchasing Department. SWEC Project Engineering must check with the responsible SWEC Project Procurement Supervisor to ascertain the qualified minority contractors/vendors who could be included in the recommended List of Bidders.
3. The responsible Engineer will process the list through the SWEC review cycle in accordance with EAP 4.1.

H. Review of Bid Specification (Refer to EAP 4.13)

1. The preparer shall:
 - a. Obtain the number of copies required of the draft bid specification for review distribution.
 - b. Complete a Specification and Addenda Review Control Form (SARC) (Attachment 1). List the names of all project reviewers, including other disciplines as required. Retain a copy of the list to aid in followup.

The project reviewers should include as a minimum:

- 1) Materials Engineering

- 2) Advisory Operations (those specifications containing field test requirements)
 - 3) Construction (when field labor is involved)
 - 4) Manager of Procurement
- c. The guidelines outlined below will be followed for specifications that will be used in bidding at the site.
- 1) When specifications are issued for review, a copy shall be sent to the Superintendent of Engineering at the site, who will be responsible for distributing the specifications to the appropriate construction and procurement personnel for review.
 - 2) The responsible engineer will schedule a meeting to be held at the site approximately 2 weeks after the specification is issued for review in order that all Construction and Engineering comments can be discussed and resolved. If comments from site personnel are minimal, then no meeting will be required. At a minimum, attendees at the meeting should include representatives from Site Engineering, Construction, Contract Administration, Quality Assurance (if necessary), the responsible CHOC engineer and his principal. After the meeting, agreed-upon changes will be incorporated, and the specification will be formally issued to the site for bidding.
- d. Attach the SARC to a copy of the draft specification and hand-deliver it to the Principal Engineer (first reviewer) to start the review cycle.
- e. Complete a Request for Review and Approval of Specification (RRAS), Form 5036.1 (Attachment 2), for each off-project reviewer listed below and attach it to a copy of the draft specification and/or ITB (when applicable). Send a review package to each reviewer listed below:
- 1) Equipment Specialist - Always a reviewer
 - 2) Quality Assurance Department, Quality Systems Division

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3) Independent Reviewer

- a) QA Category I specifications that contain changes in technical requirements (other than material, QA, and environmental requirements) from the master specification shall be reviewed by an independent reviewer as required by EAP 3.1.
- b) If the Equipment Specialist has not prepared the project specification or has not directly supervised the preparer of the project specification, he shall perform the independent review in addition to his customary concurrence review.
- c) If the Equipment Specialist is not eligible to perform the independent review (e.g., he has supervised the preparer or prepared the master specification), he will notify the preparer of his disqualification. The specialist's division chief must designate an individual to act as the independent reviewer.
- d) If the responsible engineer makes a preliminary determination that an independent review is not required on a Category I specification, addendum, or revision, the letters "NR" shall be printed in the Approval block followed by the initials of the Project Engineer or his designee to indicate concurrence.

2. Each project reviewer shall:

- a. Within 5 days, review the draft and mark and initial his comments directly onto the draft copy so as not to obliterate the text or line numbers. CAUTION: A Project reviewer should confine his comments to items peculiar to the NMP2 Project. If a reviewer believes that he must comment on the technical, QA, commercial, etc, portions of the draft or if his comments are extensive, he shall first discuss them with the preparer.
- b. Apply his "NOTED" stamp adjacent to his name on the SARC form and hand-carry (when possible) the package to the next listed project reviewer. The last project reviewer shall return the package to the preparer.

3. Each off-project reviewer receiving draft copies with the RRAS form attached shall:
 - a. Initiate a Document/Specification Review (DSR), Form 5040.32A (Attachment 3), with his itemized comments. If there are no comments, he shall state so on the form.
 - b. Return the white and canary copies of the DSR form to the responsible Engineer whose name appears in Block 5 of the RRAS form. The reviewer shall retain the pink copy.
4. It shall be the preparer's responsibility to expedite the timely return of reviewers' comments. If any reviewer's comments are not received within 2 weeks after distribution of the drafts, the responsible Lead Engineer shall bring it to the attention of the reviewer's lead and if no resolution is reached, then to the attention of the APE.

J. Transmittal of Draft Bid Specification and Bidders List to NMPC

1. A copy of the bid specification undergoing Project review and a Preliminary List of Recommended Bidders written on an IOC shall be sent by the preparer (via Document Control) to the NMPC Manager - Project Engineering (or designee) using a SWEC Transmittal (Form 029.5G). For specifications covering contracted construction services, send the specification only.
2. The preparer interfaces with NMPC Project Engineering to resolve NMPC comments and concerns. Pertinent agreed-to comments are incorporated into the final specification.
3. DC shall process the transmittal in accordance with Project Procedure (PP) 69, NMP2 Document Control Activity.
4. NMPC, by return response to the IOC, may request SWEC to delete or add bidders. SWEC may comply with a request to delete one or more bidders if at least four bidders remain on the list.
5. If the request is made to add one or more bidders to the list, a request to amend the Recommended Bidders List must be forwarded to the Specialist.

K. Reviewers' Comments and Specification Approval

1. Upon receipt of the reviewers' comments, the preparer shall:

- a. Incorporate in the specification all comments with which he agrees.
 - b. Discuss and resolve with the reviewer all comments that he questions.
 - c. Refer comments that cannot be resolved with a reviewer to the preparer's Principal/Lead Engineer, who will take appropriate action to resolve the impasse.
 - d. Make all other reviewers aware of changes made by any one reviewer that may affect their earlier reviews.
 - e. Document resolution of the comments (preparer's response) on the Document/Specification Review Form and return the canary copy to the originating reviewer.
 - f. Obtain a "specimen" copy of the latest ITB to determine whether any conflict exists between the ITB and the specification. Any conflicts are to be resolved with the Project Purchasing Supervisor.
 - g. Prepare a marked-up draft for WPC, and proof and correct the draft.
 - h. Order a final printout (pjnf - print, justified, numbered, footer) with a cover sheet. The cover sheet only shall be devoid of a DIN and line numbers.
2. WPC shall generate a corrected document in accordance with the marked-up draft and deliver the resulting "pjnf" original to the preparer.
 3. The preparer shall then:
 - a. Request an administrative review of the specification by the Administrative Assistant in Document Control prior to application of the approval block stamp. Accompanying the document will be all documents (E&DCRs, N&Ds, and addenda) being incorporated or listed (one-time-only changes). The APM will then review the document for administrative errors. If none are found, the APM will have the appropriate approval block stamp applied (shown below). The document and incorporated E&DCRs, N&Ds, and addenda will be returned to the responsible engineer for signature routing. If errors are detected, however, the document will be returned to the Engineer for correction and resubmission. This review will be completed within 1 working day.

APPROVED		
	Name	Date
Preparer	_____	_____
Lead Engr	_____	_____
Specialist	_____	_____
Proj Engr	_____	_____
Qual Assur	_____	_____
Mtrls Engg	_____	_____
Const Dept	_____	_____

NOTE: For QA Category I specifications, the following approval stamp shall be placed on the specification cover:

APPROVED		
	Name	Date
Preparer	_____	_____
Lead Engr	_____	_____
Specialist	_____	_____
Proj Engr	_____	_____
Qual Assur	_____	_____
Mtrls Engg	_____	_____
Const Dept	_____	_____
Indep Review	_____	_____

- b. Sign and date as "Preparer"
 - c. Hand-carry the Word Processing original of the specification together with all previous comment documentation to each individual whose signature is required in the sequence listed in Items 4 through 8 below.
4. The Lead Engineer shall review, sign off, and date the cover sheet. He shall also review for incorporation and/or resolution of the equipment specialist's comments. Action taken on all the specialist's comments shall be verified with the specialist by the Lead Engineer via telephone. The Lead Engineer shall document the equipment specialist's approval by preparing a tel-con note and distributing copies to the specialist, the preparer, and the job book. When the Lead

Engineer is satisfied that the equipment specialist approves the specification, he shall sign off for him by printing the name of the equipment specialist followed by his own initials.

NOTE: In situations where agreement with the specialist(s) cannot be reached, the preparer's division manager/supervisor may review, approve, and sign off in the specialist's block provided certain followup actions are performed. This applies to specialist review of specifications, Recommended Bidders Lists, Comparisons of Bids, and Letters of Recommendation. Refer to EAP 5.20 for followup action required by the division manager/supervisor.

5. Materials Engineering shall review the specification for incorporation and/or resolution of previous comments and sign off and date the cover sheet to indicate approval.
6. A Professional Engineer must review and approve ASME III Design specifications and affix his stamp (not necessarily NY State PE) on the cover sheet (see Appendix 6.1 of the SPM).

NOTE: Some specifications are not design specifications and therefore do not require a stamp (e.g., mechanical equipment - P275C). It only references stamped documents or codes.

7. If Construction review was required:

The Project Construction Specialist shall review for incorporation and/or resolution of the Construction reviewer's comments. If satisfied, he shall sign off the cover sheet by printing the name of the reviewer followed by his own initials if the reviewer is someone other than himself.

8. The Quality Systems Division Representative shall review for incorporation and/or resolution of QA comments. If satisfied, he shall sign off the cover sheet by signing his own name and the date.

NOTE: At this point, and before final signoff by the Project Engineer, the preparation of ITB should be initiated in accordance with Section III.F.

9. The Project Engineer (or designee) is the last one to sign off and date the specification. The date he signs becomes the issue date of the specification.

10. Following completion of the signoff cycle, the signed original, together with all comment documentation (SARC, DSR forms, tel-cons, IOCs, etc), is delivered to DC by the preparer.
11. The preparer sends an IOC via transmittal, addressed to the NMPC Manager - Project Contract Administration, which identifies the Final Recommended Bidders List (for NMPC approval) and the Final Approved Bid Specification (for NMPC information). This is normally done 3 weeks prior to the bid solicitation date.

L. Preparation of Instructions to Bidders

1. The specification preparer will request the appropriate and latest ITBs from the Project Purchasing Supervisor. The following document is available:

ch-12177-1266a,b ITBs for Equipment and/or Material

2. The specification preparer will determine the need for the Compatibility Clause in the procurement of the equipment and/or material applicable to his specification. If not required, it is to be removed from the ITB. For assistance in determining the applicability of the Compatibility Clause, contact the NMP2 Project Construction Specialist.
3. The specification preparer will provide his input to the ITB and obtain review by the Project Purchasing Supervisor. He will include a certification of Nonusage of Excluded Equipment (Attachment 4) if applicable (Reference PM 65).
4. He will give the WPC the marked-up copy and order a final printout of the ITB.

NOTE: Do not change the DIN or date on the ITB.

5. The preparer will deliver the ITB to Document Control.

M. Specification Distribution

1. DC shall process the completed, signed-off specification and ITB in accordance with PP 69, utilizing PP 66 for distribution.
2. The responsible Engineer shall ensure that any forms, memos, tel-cons, or other evidence-of-review documentation are provided to DC for filing in the designated Job Book.

N. Transmittal to Project Purchasing for Solicitation of Bids

1. The responsible Engineer will prepare and obtain approval of a Purchase Requisition in accordance with EAP 4.1, except as noted below:

Upon obtaining copies of the approved SWEC Recommended Bidders List and the approved specification, the responsible Engineer will issue a requisition to Project Purchasing accompanied by the required number of copies of the specification and ITB (two per bidder, plus two). The formal Request for Quotation will be initiated by Project Purchasing and mailed to the bidders.

2. The requisition will contain the list of bidders in the appropriate block. Addresses will be determined by Project Purchasing and forwarded to the bidders accordingly.
3. If drawings are required to be included with the bid documents, they will be enclosed with the specification. When their quantity precludes their attachment, they shall be referenced in the bid document in the following manner:

Drawings applicable to this solicitation are being mailed under separate cover. If not received within 1 week after receipt of this Request for Quotation, notify the NMP2 Project Purchasing Supervisor at (609) 482-3447.

4. Drawings, properly folded and in the required quantity, will be provided to DC by the responsible Engineer.
5. Project Purchasing expedites NMPC Project Contract Administration approval of the Bidders List (if not already approved).
6. NMPC may, upon review of the list of approved bidders, make changes as they desire. SWEC will be notified of any such changes in a timely manner so as not to affect the procurement cycle. NMPC will include the mailing address and contact (if any).
7. Recommended bidders are to be allowed at least 45 days, unless SWEC Purchasing advises otherwise, to submit bids. NMPC may respond within 21 days after receipt of the approved specifications with any requested changes. NMPC will be informed of the schedule impact if their comments arrive later than 21 days after receipt of the approved specifications.

8. Incorporation of any NMPC comments or changes for any other reason during the bidding period shall be accomplished through preparation of a lettered addendum in accordance with Section 5, paragraph 6.0, and Appendix 5.13.
9. As a normal practice, when procuring construction services, Construction holds prebid meetings with the bidders during the bidding cycle to review both the commercial and technical aspects of the bid package. Subsequent to formal issuance of the specification, if any changes need to be made to the specification prior to receipt of bids, when deemed necessary, a meeting shall be held onsite prior to the prebid meeting to discuss the comments. Contract Administration will call these meetings, which the Principal Engineer, at a minimum, shall attend as Engineering's representative.

0. Confidentiality of Bids

1. All personnel who participate in the actions and decisions relating to procurement must be fully aware of the duties and responsibilities involved in our relation with companies that have submitted quotations to us in connection with our work.
2. As a reminder of these duties and responsibilities, please note the following:
 - a. No bidder shall be advised prior to or after award of his relative standing with other bidders as to price or be furnished information as to the prices or commercial or technical data offered by other bidders. After receipt of quotations, no information regarding the number or identity of the bidders participating shall be made available to the public or to anyone whose official duties do not require such knowledge.
 - b. The Purchasing Department is responsible for the evaluation and clarification of the commercial aspects of all quotations.
3. Prudent business practice generally dictates that association with bidders for equipment/material be confined to business offices during periods of quotation evaluation.
4. For procurement of construction services, all communications with bidders during the bidding stage must be made through the Purchasing/Contract Administration Organization.

P. Selection of Supplier

1. The Bidder is required to submit to SWEC one unpriced copy of his bid proposal under separate cover. This copy, when received by the Project Purchasing Supervisor, shall be forwarded immediately to the responsible Engineer.
 - a. Before the bids are opened, the Responsible Engineer shall determine whether any clarification is needed that may affect the price. If price could be affected, the Project Purchasing Supervisor shall be notified.
 - b. Notification must be effected within 48 hours of receipt of priced bids (bid due date) or Purchasing will proceed with the bid opening procedure.
 - c. Purchasing will contact the vendors prior to the opening of priced copies, allowing a reasonable time for the bidder to respond in writing to make his a viable bid.
2. Any correspondence from the vendor marked supplemental quotations received directly from bidders by responsible Engineers shall be forwarded immediately, unopened, to the Project Purchasing Supervisor for correct distribution and accountability. Supplemental quotations will be opened in accordance with paragraph J.1 above. Every effort should be made to minimize the number of supplemental quotations and to have any supplemental quotations submitted prior to bid opening.
3. After bids are received, a bid comparison will be initiated by Purchasing (commercial), by the responsible Engineer (technical), and by Quality Assurance in accordance with EAP 4.1, except for the modifications below:
 - a. Upon receipt by SWEC of a proposal by a supplier, the unopened proposal shall be forwarded immediately to the Project Purchasing Supervisor to keep in locked storage until the authorized opening date.
 - b. When all bids or letters of declination from vendors not bidding have been received, the Project Purchasing Supervisor will telephone NMPC Purchasing for concurrence that they have received the same bids and that the bids may be opened. SWEC will send a confirming TWX or letter to NMPC that such concurrence was obtained and that bids have been opened.

- c. All bids for equipment procurement shall be opened by the Project Purchasing Supervisor or his designee in the presence of the Project Engineer or his designee.
 - d. Each bid as opened shall be time-date stamped and the priced pages are signed by the Engineering and Purchasing representatives mentioned above. Copies shall be forwarded immediately to the originating Engineer, the Project Engineer, and the Project Purchasing Supervisor.
 - e. The responsible Engineer shall begin the technical comparison as information is received, without waiting for the commercial comparison. He shall consult with the Equipment Specialist as he proceeds and, in particular, as he identifies exceptions to any (technical) requirements of the SWEC specification or scope of work.
 - f. After all data has been entered on the Comparison of Bids form, he shall review the form and ensure that all technical points have been resolved with the Equipment Specialist.
 - g. The responsible Engineer will sign and date the Comparison of Bids form and will also obtain the concurrence of and sign off for the Equipment Specialist, in accordance with EAP 5.20, by printing the name of the Equipment Specialist followed by his own initials.
 - h. The responsible Engineer shall then review the Comparison of Bids with his Lead Engineer, discussing the specialist's comments and recommendations. After this review, the Lead Engineer shall sign the Comparison of Bids.
- 4. Determines, in conjunction with the responsible Project Procurement representative, the two bidders who appear to be most likely candidates for recommendation. Forwards required QA documentation to Project Quality Assurance for review in accordance with EAP 4.1.
 - 5. The Comparison of Bids shall be documented and approved as described in PG 71.
 - 6. Once the Bid Comparison is completed and approved, the responsible engineer shall review PG 71 to determine whether a Letter of Recommendation is required. If it is, proceed with paragraphs 7 and 8 below. If it is not, proceed to Section Q.

7. A Letter of Recommendation to NMPC is to be initiated in accordance with EAP 5.20 and EAP 4.1, except for the modifications below:

- a. The originator shall prepare a letter recommending a supplier for NMPC approval in accordance with PG 71.
- b. The Letter of Recommendation and the Comparison of Bids shall then be forwarded to the Project Engineer for review and signature.
- c. Distribution of the approved Letter of Recommendation with the Comparison of Bids and of the approved Letter of Recommendation only shall be limited to those shown in PP 66.

NOTE: For review of a critical Letter of Recommendation, a Project review meeting may be called by the responsible Engineer in order to expedite necessary approvals.

8. The responsible Engineer shall submit the pink, white, and "copy" copies of the Letter of Recommendation, along with the original Comparison of Bids, to DC, which will make all copies in accordance with PPs 66 and 69. Distribution of the Letter of Recommendation and Comparison of Bids, other than to NMPC, Purchasing, and the responsible Engineer, will not take place until purchase approval is received from NMPC.

Q. Issuance of Purchase Specifications

1. After sending the Letter of Recommendation to NMPC (if required), the responsible Engineer shall begin preparation of Addendum 1 in accordance with the instructions in Section 5 of the Specification Preparation Manual, except as described below.
2. Addendum 1 will contain all the changes to the bid specification that have been agreed to by NMPC based on the Seller's proposal and modifications thereto. It will be a revised specification, including approval stamps and an introductory paragraph, in addition to the changes to the bid specification. The cover page (page 1) will identify the specification as the purchase specification.
3. The introductory paragraph shall read as follows:

This Addendum 1 summarizes all changes to the bid specification dated _____ to the time of placing the purchase order/contract. It replaces

Addendum A dated _____ and _____ (if applicable) and covers all changes to the specification agreed upon by the Seller and the Engineers up to the time of placing the purchase order/contract. Any data sheets included herewith are those submitted by the Seller, modified if necessary by agreement between the Seller and Engineers.

4. The NMP2 Project has been granted a deviation from the Specification Preparation Manual for the preparation of purchase specifications (Addendum 1). It is not NMP2 procedure to tape or white out revised material, to use italicized print, or type "X Add 1" in the right-hand margin. Changes to the bid specification are identified by slash marks through deleted and/or revised material (see Attachment 5). Any new wording is enclosed in braces and immediately follows the slashed section. (This enables the specification user to compare previous versus new wording without consulting the bid specification.) An "X" appears in the left margin of the line(s) on which changes or additions occur (eliminating the words "X Add 1" in the right margin).

The bid specification cover page is not the Addendum 1 cover page. Instead, the Addendum 1 cover page is the first page, since it contains all of the latest signatures. The ORGANIZATION page (0-1) is second; it in turn is followed by the page that lists all changes to the specification. The following words and format are to be used on this page:

Each change to the specification identified below by page number, line number, and section title has been made in the specification text. Changes are identified by an "X" in the left margin. All deleted words are slashed out (/), and all new words are contained within braces ([]). If new lines are required, they shall contain the root of the previous line (1.67), a slash, and then consecutive numbers (1.67/1, 1.67/2, etc).

	<u>Page No.</u>	<u>Line No.</u>	<u>Specification No.</u>
Examples:	1-4	3.50	Compliance with 10CFR21
	1-51	41.25	Notification Points
	6-1 through 6-7	3.23 through 7.20	Section 6

The original bid specification cover page will follow the page containing the above information.

5. Addendum 1 requires complete signoff as outlined in EAP 4.10. Such signoff by groups not at CHOC may be obtained in accordance with EAP 5.20, utilizing the assistance of the CHOC representative of such groups wherever feasible.

Approvals for Addendum 1, except that of the Project Engineer, may be obtained prior to NMPC purchase approval. The Project Engineer will sign and date Addendum 1 only after NMPC purchase approval is received.

6. Upon receipt of appropriate approval (SWEC or NMPC), the Project Buyer will send an IOC to the Project Quality Assurance Manager requesting confirmation that the selected supplier is presently qualified. Upon QA's written confirmation that the vendor's QA rating is acceptable, a TWX is sent by the Project Purchasing Supervisor notifying the successful bidder of the award.

The Project Purchasing Supervisor will notify DC that the Letter of Recommendation (if required) and Comparison of Bids are approved for distribution.

7. Upon receipt of appropriate approval (SWEC or NMPC), the responsible Engineer shall complete the Release for Purchase (yellow copy) of the Purchase Requisition (Form 4505.1 - Attachment 6), attach a sheet describing the equipment and/or material or services being purchased and any other pertinent details that should be made a part of the purchase order (Attachment 7), and forward it to the Project Engineer or his designee. The Addendum 1 is also forwarded to the Project Engineer for his approval.
8. The Project Engineer shall sign the yellow copy of the Purchase Requisition in the "Release" (Project Engineer) block and forward it with any other necessary documents to the Purchasing Department via the Cost Division of the Planning and Estimating Department. He shall also sign the Addendum I and forward it to Document Control via the Project Secretary.
9. The Purchasing Department will process the Purchase Requisition and initiate a purchase order in accordance with the appropriate Purchasing Department procedure. The blue copy is forwarded by Purchasing to DC for filing in the relevant job book.
10. The approved Addendum 1 (the purchase specification) is distributed by DC according to PPs 66 and 69. SWEC Purchasing receives three copies as an attachment to the yellow signed

copy of the requisition, two of which are forwarded to the vendor with the purchase order.

R. Specification Addenda

1. All addenda, other than Addendum 1, will be prepared as outlined in Section 5 of the Specification Preparation Manual, paragraph 8.2, and Appendix 5.13, as modified below. Originals of all addenda must be filed with the original of the specification in DC in accordance with PP 69.
2. Approval of lettered addenda (prepared to modify the bid specification only) and of numbered addenda subsequent to Addendum 1 will be obtained as outlined in EAPs 4.10 and 5.20. At a minimum, all addenda will be signed by the responsible Engineer, Lead Engineer, Project Engineer, and Quality Systems Division representative. In addition, when addenda to issued purchase specifications become necessary, authorization must be obtained from NMPC as described in PG 71.
3. Prior to preparation of an addendum involving the addition of out-of-scope work to a specification involving field labor, the responsible engineer should consult with the project construction specialist to determine whether the out-of-scope work should be bid separately, thereby requiring a separate specification.
4. To ensure uniformity in the format of NMP2 addenda, the following supplementary guidelines will be followed:
 - a. Changes are to be made in the same sequence as they appear in the specification.
 - b. Each item of the addendum may include only one action. (Deleting lines and adding an insert in the space is considered one action.)
 - c. Only the terms "delete" and "add" may be used. The term "change" is unacceptable.
 - d. Phrases will be enclosed by dashes rather than quotation marks. Insert words or phrases as follows:

Delete: - apply coating to -
Add: - apply internal coating to -
Incorrect: before "coating" add "internal."
5. Numbered addenda shall only be sent to the vendor as an attachment to a Change Order.

6. Addenda follow the same approval cycle as specifications, noting that the provisions of EAP 5.20 can usually be utilized for off-project review, especially when changes are not extensive.

When changes beyond Addendum 1 consist only of incorporation of approved E&DCRs and/or N&Ds, approval signatures will be limited to the responsible Engineer, the Lead Engineer, the Project Engineer, and the Quality Systems Division (QSD), or his designee, with the following additional requirements:

- a. The Construction Department or Environmental Division must review and approve the addendum when their area of responsibility is affected by the specification change.
 - b. Addenda to ASME III specifications must be signed by all parties who signed the original specification.
 - c. A Professional Engineer must review and certify changes to ASME III specifications. He will sign, date, and affix his stamp to the cover sheet.
7. Addenda are distributed by DC in accordance with PP 69 and as indicated below:
- a. Lettered addenda, if distributed prior to bid request, are distributed via transmittal (Form 029.5G).
 - b. If a lettered addendum is distributed subsequent to the bid request, it is forwarded to DC with a 9M2 letter signed by the Project Purchasing Supervisor for distribution to the Bidders.
 - c. Addendum 1 (after the purchase award) is distributed in accordance with standard distributions. Copies will be given to the RE at his request. Purchasing shall forward two copies to the successful Bidder with the formal purchase order.
 - d. Other numbered addenda (issued later) are supplied by DC to the RE upon request for issuance to Project Purchasing with a Memo of Changes (Attachment 8).
8. For addenda beyond Addendum 1, the responsible Engineer will send a preliminary copy (no Project Engineer signature) of the addendum to Project Purchasing with a letter for signature by the Project Purchasing Supervisor notifying the vendor of the proposed changes (Attachment 9).

- a. The responsible Engineer sends the addendum and the letter to the vendor via Purchasing for determination of any cost or schedule impact.
- b. If the vendor responds that there is no impact associated with the change, the addendum is submitted for approval by the Project Engineer and then sent by the Project Secretary to Document Control for distribution according to PPs 66 and 69. The responsible Engineer at the same time prepares, obtains approval, and submits to the Project Purchasing Supervisor a Purchase Requisition reflecting the new addendum. He will issue a Purchase Order Memo of Change to the vendor.
- c. If NMPC approval is required as defined in PG 71, the responsible Engineer sends the addendum to NMPC for approval via a Recommendation for Change Order (RCO) [reference PG 71].
- d. Upon NMPC approval, the change package is forwarded to DC for distribution according to PP 69, and the purchase requisition is forwarded to the Project Purchasing Supervisor, who issues a purchase order Memo of Changes to the vendor.

S. Specification Revisions

The changes to a specification may require a total revision rather than an addendum. This would occur when the Project Engineer or his designee decided that a specification would be too cumbersome to work with because of the number or complexity of the addenda. Also, in the event that there were a large number of E&DCRs to be incorporated, particularly for erection specifications if a revision is required, the instructions contained in the SPM, Section 5, Paragraph 8.4 through 8.6, are applicable. Also, if the change to the specification involves added scope to an installation contract, the instruction in paragraph III.M.3 shall apply. In addition, the instructions in paragraphs III.M.5 through III.M.8 for numbered addenda beyond Addendum 1 are also applicable for revisions.

T. Revisions as Bid Specifications

In the event that a purchase order is canceled, all existing issues of the specification should be canceled by addendum, and then a revision prepared as a bid specification. Subsequently, Addendum 1 to the revision would become the purchase specification.

DOCUMENT
NUMBER: PP 3
REVISION: 9
PAGE: 25 of 38
Attachment 1

SPECIFICATION AND ADDENDA REVIEW CONTROL FORM

J.O.No. 12177

Specification No. _____ Revision/
Addendum No. _____

Specification Name _____ Prepared by _____

ROUTING RECORD OF SEPARATELY ROUTED COPIES:

	Name	Date Submitted	Estimated Holding Time	Date Returned
NMPC	C. D. Terry		10 days	
Materials	D. A. Boe		5 days	
QA	M. I. Gilman		5 days	
Specialist			5 days	
Construction	W. N. Doldorf		5 days	
Advisory Operations	G. F. Weston		5 days	

Interoffice Circulating List

MAXIMUM 2-DAY REVIEW

Date Received Date Returned

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Manufacturer's name _____
Manufacturer's address _____

SWEC Specification No. _____

To

DATE _____

NAME _____

ADDRESS _____

DIVISION OR DEPARTMENT _____

REQUEST FOR REVIEW AND APPROVAL OF SPECIFICATION

1. FOR YOUR REVIEW, I AM TRANSMITTING HERewith A COPY OF A SPECIFICATION ENTITLED:

2. THIS SPECIFICATION IS A:

- ☐ DRAFT SPECIFICATION FOR PRELIMINARY COMMENT
☐ MASTER SPECIFICATION FOR APPROVAL OR COMMENT*
☐ JOB SPECIFICATION FOR APPROVAL OR COMMENT*

SAMPLE

IF YOU COMMENT INSTEAD OF APPROVE, YOUR APPROVAL SHALL BE *AUTOMATIC* WHEN YOUR COMMENTS ARE INCLUDED OR RESOLVED. ADDITIONAL COMMENTS MADE LATER WILL NOT BE INCLUDED UNTIL THE SPECIFICATION IS REVISED OR AN ADDENDUM ISSUED.

3. THIS SPECIFICATION IS A:

- ☐ PROCUREMENT SPECIFICATION
☐ ERECTION SPECIFICATION
☐ PROCUREMENT AND ERECTION SPECIFICATION

4. IF YOU HAVE QUESTIONS, PLEASE CALL

- ☐ ME
☐ MR. _____ EXTENSION _____

5. IT IS MY UNDERSTANDING THAT YOUR COMMENTS WILL BE AVAILABLE NOT LATER THAN 5 WORKING DAYS AFTER YOU RECEIVE THE SPECIFICATION, OR EARLIER IF POSSIBLE. WHEN THEY ARE AVAILABLE, PLEASE

☐ CALL ME

MAIL TO: _____
NAME ADDRESS

NAME	DIVISION	LOCATION	EXTENSION

SERIAL NUMBER

PAGE

OF

REVIEWER/DEPARTMENT

DATE REVIEWED

SAMPLE

DOCUMENT NUMBER: PP 3
REVISION: 9
PAGE: 27 of 38
Attachment 3

DATE _____

CERTIFICATION OF NONUSAGE OF EXCLUDED EQUIPMENT

The Nuclear Regulatory Commission periodically identifies equipment which they have found to be defective in their inspections of nuclear power plants. The Purchaser has committed to use none of the following equipment in safety-related components for Nine Mile Point Nuclear Station - Unit 2:

1. Automatic Switch Company (ASCO), solenoid valves, Series 8300-C, Form RF or RU; or Series 8302-C, Form RF or RU
2. Westinghouse Electric Corporation Type OT-2 switches
3. General Electric Company (GE) Type HFA, HGA, HKA, and HMA relays with nylon coil spools (or bobbins)
4. GE Type STD relays
5. Westinghouse Type BF (ac) and BFD (dc) relays
6. Westinghouse Type AR relays with latch attachments
7. ITE Imperial Corporation Type J20 pneumatic timing head (in time delay relays)
8. GE Type CR120A relays
9. Cutler-Hammer Type M dc relays, Catalog No. D23MRD (manufacturing dates prior to August 1976)
10. Bergen-Paterson Corporation hydraulic shock suppressor accumulator spring coils, Serial Nos. 487,000 to 515,000 and F60,635 to F75,000
11. Westinghouse Type SG 293-B255A20 relays

Equipment from the above listing MUST NOT BE USED in any equipment supplied under this specification without written approval from the Engineers.

We understand the above directive and certify that NONE OF THE ABOVE EQUIPMENT HAS BEEN OR WILL BE SUPPLIED AS PART OF OUR EQUIPMENT.

Name _____

Title _____

Copyright 1979
Stone & Webster Engineering Corporation
Cherry Hill Operations Center
Cherry Hill, New Jersey
I, II, III
NUCLEAR SAFETY RELATED

1.8
1.9
1.10
1.11
1.12
1.13

J.O. No. 12177
Spec. No. NMP2-C081A

June 25, 1979
Addendum 1 1.16
PURCHASE SPECIFICATION 1.17

Addendum 1
Specification for

RR 7406 270003 1.19
PL. 50 1.20

INSTRUMENT INSTALLATION

1.22

ASME Code, Section III, Classes 2 and 3
ANSI Code, B31.1

1.24
1.25

Nine Mile Point Nuclear Station - Unit 2
Niagara Mohawk Power Corporation
Scriba, New York

1.27
1.28
1.29

Seller:
Johnson Controls, Incorporated
Phila., PA

1.29/2
1.29/3
1.29/4



This design specification
is hereby certified to be
correct, complete, and in
compliance with the ASME
Boiler and Pressure Vessel
Code, Section III, NA-3250,
dated July 1, 1977.

APPROVED		
	Name	Date
Preparer	<u>Jerome L. Kligenman</u>	<u>6/27/79</u>
Lead Engr	<u>Jerome L. Kligenman</u>	<u>6/27/79</u>
Specialist	<u>Jerome L. Kligenman</u>	<u>6/27/79</u>
Proj Engr	<u>Jerome L. Kligenman</u>	<u>6/27/79</u>
Qual Assur	<u>Jerome L. Kligenman</u>	<u>6/27/79</u>
Mtrls Engg	<u>Jerome L. Kligenman</u>	<u>6/27/79</u>
Const Dept	<u>Jerome L. Kligenman</u>	<u>6/27/79</u>
Indep Review	<u>Jerome L. Kligenman</u>	<u>6/27/79</u>

1.31
1.32
1.33
1.34
1.35
1.36
1.37

Signed: Jerome L. Kligenman
Dated: JUNE 27 1979
Prof. Eng. State: NEW YORK
Registration No.: 52926

1.39
1.40
1.41
1.42

This Addendum 1 includes all changes to the bid
specification dated January 13, 1978, Addendum A and
Addendum B, both dated June 1, 1978, and Addendum C dated
September 21, 1978, to the time of placing the contract.

1.45
1.46/1
1.46/2

SAMPLE

ORGANIZATION

		1.9
	This specification consists of the following:	1.12
X	{Addendum 1 - Summary of all changes and agreed-upon	1.13/1
X	exceptions and addenda to the	1.13/2
X	specification to the time of placing the	1.13/3
X	contract}	1.13/4
	Section 1 - Information and Requirements	1.14
	Section 2 - Piping and Tubing Specifications	1.16
	Section 3 - Instrumentation Design Standards, Guides,	1.18
	and Sketches	1.19
	Section 4 - List of Appendices	1.21
	Section 5 - List of References	1.23
X	{Section 6 - Design and Installation of Tubing and Tubing	1.24/1
X	NE Supports for Seismic Instrument Systems}	1.24/2
	The contents of each section are indicated in	1.26
	detail at the beginning of that section.	1.27
	Each page is numbered with the section number and	1.30
	the page number of that section.	

IMPORTANT NOTICE

		1.33
	No change to this specification shall be binding on any	1.36
	party until an addendum to the specification has been	1.37
	issued. No deviation from this specification shall be	1.38
	accepted by the Engineers' inspector until it has been	1.39
	approved as required by the Engineers' standard	1.40
	procedure.	1.41

0-1a

Each change to the specification identified below by page number, line number, and section title has been made in the specification to

X changes identified by an "X" in the left hand margin. All 1.44
 X are deleted words are slashed out (/), and all new words are
 X contained within braces ({ }). If new lines are 1.45
 X required, they shall contain the root of the previous
 X line (1.67), a slash, and then consecutive numbers
 X (1.67/1, 1.67/2,...) .] 1.46

X Page No.	Line No.	Specification Section	1.49
X 00	-	Addendum 1	1.51
X 0-1	1.13, 1.24	Organization	1.52
X	1.41		1.53
X 1-1	1.18	Information and Require-	1.54
X		ments	1.55
X 1-3, 4	3.29, 3.40,	Scope	1.56
X	3.41 thru		1.57
X	3.49		1.58
X 1-4	3.50	Compliance with 10CFR21	2.1
X 1-17	15.34	Applicable Documents	2.2
X 1-22	19.46, 19.54	Racks	2.3
X	55.19, 55.20		2.4
X	20.1 thru		2.5
X	20.1 thru 20.6		2.5/1
X 1-28	24.3 thru 24.6	Tube Supports	2.6
X 1-32	24.3 thru 25.57,	Locating & Mounting	2.7
X	27.4, 27.6	of Instruments, Racks	2.8
X 1-33	27.41	Locating & Mounting	2.8/1
X		of Instruments, Racks	2.9
X 1-34	28.7	Drilled-In Expansion	2.9/1
X		Type Concrete Anchors	2.9/2
X 1-35	29.11	Receiving, Handling, and	2.11
X		Storage	2.12
X 1-36	29.23	Receiving, Handling, and	2.13
X		Storage	2.14
X 1-40, 41	32.40 thru	Marking	2.15
X	32.46		2.16
X 1-41, 42	33.15 thru	Welding and Brazing	2.17
X	33.18, 33.32		2.18
X	thru 33.36		2.19
X 1-47, 48	38.7	Construction Loop	2.20
X		Inspection and Con-	2.21
X		struction Sign-Off	2.22
X 1-49	39.19	Pneumatic Tubing Leak	2.23
X		Test	2.24
X 1-50	39.59	Quality Assurance	2.25
X 1-51	41.25	Notification Points	2.26
X 1-53	43.7 thru	Inspections	2.27
X	43.10		2.28
X 1-55, 56	44.49, 45.30	Documentation Table	2.29
X 3-1	2.17 thru 2.20	Section 3	2.30
X 6-1 thru 6-7	3.23 thru 7.20	Section 6	2.31

J.O. No. 12177
Spec. No. NMP2-C081A

January 13, 1978

BB7801160032
Spec 1

Specification for

INSTRUMENT INSTALLATION
ASME Code, Section III, Class 2 and 3
ANSI Code, B31.1

Nine Mile Point Nuclear Station - Unit 2
Niagara Mohawk Power Corporation
Scriba, New York



This design specification
is hereby certified to be
correct, complete, and in
compliance with the ASME
Boiler and Pressure Vessel
Code Section III, NA-3250
dated July 1, 1977

Signed: Jerome L. Kligerman
Date: DEC. 15 1977
Prof. Eng. State: NEW YORK
Registration No.: 52926

APPROVED		
	Name	Date
Preparer	<u>EC</u>	<u>12/1/77</u>
Lead Engr	<u>...</u>	<u>1/15/78</u>
Specialist	<u>...</u>	<u>1/15/78</u>
Proj Engr	<u>...</u>	<u>1/15/78</u>
Qual Assur	<u>...</u>	<u>1/15/78</u>
Mtrls Engg	<u>...</u>	<u>1/15/78</u>
Const Dept	<u>...</u>	<u>1/15/78</u>
Indep Review	<u>...</u>	<u>1/15/78</u>

Copyright 1977
Stone & Webster Engineering Corporation
Cherry Hill Operations Center
Cherry Hill, New Jersey
NUCLEAR SAFETY RELATED
QA Category I, II, III

PP3, Revision 9
Page 32 of 38
Attachment 5

SAMPLE

Flow instrument connections for Venturi and/or flow nozzle type devices will include the connection, nipples, and shut-off valves. Venturi and/or flow nozzles are to be installed into process piping by others (piping erection group).

Temperature instrument connections are provided on the piping, vessels, and/or equipment. Weld-in type thermowells provided with the instrument are to be installed by others. Threaded and/or flanged thermowells are to be installed by the Contractor after permanent installation of piping, vessels, and/or equipment.

X Racks 19.46

The term "Rack" refers to open type steel framework structures which contain instruments mounted to the framework with piping, valves, wiring, terminal boxes, and other accessories installed and connected to appropriate terminal connectors.

X 19.54
X 19.55
X

X The EK-5 series of Instrument Drawings show local rack details. 19.57
19.58

X 20.1
X 20.2

X [In general, local racks will be provided to the Contractor for installation. Panels will be installed by others.] 20.3/1
20.3/3

X Where racks are to be provided by the Contractor in the field, they will be designated and detailed on the Instrument Piping Drawings. 20.4
20.5
20.6

TECHNICAL REQUIREMENTS 20.10

Tubing 20.13

A. General 20.15

The term "tubing" should be understood to mean either tubing or pipe. Therefore, all of the following references to tubing shall be taken as tubing and/or piping. 20.17
20.18
20.20

All tubing shall be installed to meet the classification requirements of the CLASSIFICATION OF PRIMARY 20.22
20.23

<input type="checkbox"/> PARTIALLY <input type="checkbox"/> COMPLETELY		TO BE USED FOR		ACCOUNT NO.		
FILLS REQ. NO. _____ OF _____				ALLOWANCE IN CONTROL ESTIMATE		
→ OBTAIN PRICE & PLACE ORDER:		<input type="checkbox"/> AFTER RELEASE BY ENGINEERS		<input type="checkbox"/> WITH LOWEST RESPONSIVE BIDDER ←		
PURCHASE REQUISITION				STONE & WEBSTER ENGINEERING CORPORATION		
<div style="writing-mode: vertical-rl; transform: rotate(180deg);">VENDOR</div>				P.O. NO.		
				PAGE _____ OF _____		
				DATE _____		
				TERMS _____		
				PRICE FOB _____		
				SHIPMENT DUE _____		
DESIRED BIDDERS (COMPANY NAME IS SUFFICIENT)				SHIP TO _____		
				SEND INVOICE IN TRIPLICATE TO: _____		
				SHIP VIA _____		
<input type="checkbox"/> ADDITIONAL BIDDERS ON PAGE NO. _____						
ITEM NO.	QUANTITY	DESCRIPTION OF MATERIAL			UNIT PRICE	AMOUNT
SPEC. NUMBER		TITLE		REV	DATED	LATEST
ORIGINATOR		DATE	APPROVED FOR INQUIRY (PROJECT ENGR)	DATE BIDS REQUIRED	COMPLETE BELOW ONLY WHEN RELEASING FOR PURCHASE CLIENT AUTHORIZATION TO PURCHASE <input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> WRITTEN <input type="checkbox"/> ORAL	
		SIGN	DATE		DATE OF AUTHORIZATION	
		COST DIVISION		DELIVERY REQUIRED	FROM (CLIENT REP.)	TO (S&W REP.)
		PURCHASING DEPARTMENT			RELEASED - (PROJECT ENGINEER)	DATE RELEASED

PP 3, Revision 9
Page 34 of 38
Attachment 6

ROUTING

①
②

NO. 216248

PURCHASE ORDER

▲4530.44A (9/77)

STONE & WEBSTER ENGINEERING CORPORATIONCHERRY HILL OPERATIONS CENTER
3 EXECUTIVE CAMPUS, P. O. BOX 5200
CHERRY HILL, NEW JERSEY 08034

P. O. NO.

PAGE

J. O. NO.

OF

DATE

THE ABOVE PURCHASE ORDER
AND JOB ORDER NUMBERS
MUST APPEAR ON ALL IN-
VOICES AND CORRESPONDENCE

TERMS

PRICE FOB

PREPAY CHARGES
IF PURCHASED
F. O. B. DESTINATION

SHIPMENT DUE

TO

SHIP TO

ADDRESS ALL CORRESPONDENCE TO THE ABOVE ADDRESS.

SEND INVOICE IN TRIPLICATE TO

SHIP VIA

ITEM NO	QUANTITY	DESCRIPTION OF MATERIAL	UNIT PRICE	AMOUNT
---------	----------	-------------------------	------------	--------

THE SELLER, BY ACCEPTING THIS ORDER, AGREES TO THE SEVERAL CONDITIONS ON FORM NO. _____ ATTACHED HERETO AND MADE A PART
HEREOF AND MUST SIGN THE ACCEPTANCE COPY OF THIS ORDER AND RETURN IT AT ONCE TO THE ABOVE ADDRESS.PP 3, Revision 9
Page 35 of 38
Attachment 7

STONE & WEBSTER ENGINEERING CORPORATION

P. O. NO.

OF CHANGES
A4540.29

STONE & WEBSTER ENGINEERING CORPORATION
CHERRY HILL OPERATIONS CENTER
3 EXECUTIVE CAMPUS, P. O. BOX 5200
CHERRY HILL, NEW JERSEY 08034

P.O. NO.

PAGE

J.O. NO.

OF

DATE

↑ THE ABOVE PURCHASE ORDER
AND JOB ORDER NUMBERS
MUST APPEAR ON ALL IN-
VOICES AND CORRESPONDENCE.

INSTRUCTIONS

*These instructions supersede all prior agreements insofar as
they affect changes herein specified.*

*Manufacturers and contractors will acknowledge these instruc-
tions without reservation or modification.*

THE SELLER MUST SIGN AND RETURN AT ONCE TO THE ABOVE ADDRESS THE ACCEPTANCE COPY OF THIS MEMORANDUM OF CHANGES

PP 3, Revision 9
Page 36 of 38
Attachment 8

STONE & WEBSTER ENGINEERING CORPORATION

P O. NO.

STONE & WEBSTER ENGINEERING CORPORATION

CHERRY HILL OPERATIONS CENTER

3 EXECUTIVE CAMPUS, P.O. BOX 5200

CHERRY HILL, NEW JERSEY 08034

TWX: 710-892-0147

710-892-0148



BOSTON
NEW YORK
CHERRY HILL, N.J.
DENVER
CHICAGO
HOUSTON
PORTLAND, OREGON
SAN DIEGO
WASHINGTON, D.C.

DESIGN
CONSTRUCTION
REPORTS
EXAMINATIONS
CONSULTING
ENGINEERING

J.O.No. 12177

9M2-

Responds to:

Response Required by:

PURCHASE ORDER NO.

DESCRIPTION OF EQUIPMENT

NINE MILE POINT NUCLEAR STATION - UNIT 2

NIAGARA MOHAWK POWER CORPORATION

Enclosed is a copy of planned changes to the purchase specification. Addendum ____ to the document will be issued incorporating these changes after your comment/concurrence is received.

Should additional pricing be involved, a firm price is preferred. Should you be unable to provide a firm price, please confirm that prices have been deescalated to the base date for escalation (insert date, see buyer) in order to be consistent with the escalation policy established for this order.

Equipment/material added by this proposed Addendum will be required at the jobsite by _____, 198 .

Please indicate your required release dates in order to accomplish this delivery.

- a. Release for Procurement required by:
- b. Release for Fabrication required by:

Please review the changes and send your comments and any price impact by _____, 198 .

Your quotation should be valid for 90 days. Terms and conditions must be in accordance with the original purchase order.

This letter is not to be construed as to represent changes to the subject purchase order. Any changes resulting from this inquiry will be submitted via a Memo of Changes to the purchase order.

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Attachment 9

If you require additional information, please contact _____ at
(609) _____ concerning technical items, or
at (609) _____ regarding commercial items.

K. R. Miller
Manager of Procurement

By _____
C. F. Ordille
Project Purchasing Supervisor

Enclosure

