

TJW

KAISER ENGINEERS, INC.

P. O. BOX F  
MIDDLETOWN, OHIO 45042

RECEIVED

OCT 18 1968

October 17, 1968

KAISER ENGINEERS  
MIDDLETOWN, OHIO

PLAINTIFF'S  
EXHIBIT

ARO-234

SUPPLEMENTAL NOTICE NO. 3

To Inquiry No. 7128-20619  
(Notice to Bidders with  
Proposal/Sub-Contract and  
Exhibits dated 9-27-68)

TO ALL BIDDERS:

Add the following new paragraph (e) under Item 2 of Exhibit "B" -  
Items to be Supplied by Contractor" (Item 2 modifies or clarifies  
procurement responsibilities under certain Sections of Specifi-  
cation No. 7128(3-20):

"(e) SECTION 15 - MISCELLANEOUS ITEMS - and Section 7 -  
GLASS AND GLAZING - Only the structural  
steel framework for the structural wall  
panels (asbestos) and for glass shown  
on the drawings of the north wall of  
the Furnace Pulpit will be furnished by  
others. The framework will also be in-  
stalled by others".

The following new paragraphs hereby incorporated under Special Pro-  
vision No. 8 of Exhibit "E" as additional modifications to Specifi-  
cation No. 7128(3-20) describing Sub-Contractor's responsibilities.

(e) SECTION 5 - Insert in parenthesis at the end of  
Item (2), "Roofers base flashing",  
under sub-section 5.1.2:

"(including furnishing and installing  
flashing for expansion joint between  
Mechanical Room and Furnace Pulpit)".

(f) SECTION 17 - Add the following new paragraph under  
sub-section 17.4 Ductwork:

f, continued

"17.4.12 INSULATION: Insulate ducts<sup>10</sup> all unconditioned areas with two (2) inch thick fiberglass insulation. Insulation shall have an aluminum foil facing, shall be blanket-wrap type, and shall be installed in strict conformance with insulation manufacturer's instructions for dual temperature ducting. All joints shall be taped and all penetrations covered to form a complete vapor barrier envelope. Insulation shall be Owens-Iorning faced duct wrap Type III (.002" foil) or equal.

- (g) SECTION 17 - Sub-Section 17.1.2 - Add the following sentence after Item (1) "Charging Side Control Stations as shown on Drawing No. 659838":

"Contractor will furnish 8" pipe to be installed by Sub-Contractor. Sub-Contractor will furnish and install pipe hangers, registers and sheet metal."

- (h) SECTION 16 - Painting Schedule on Page 16-6 - Add the words "Exterior and Interior Surfaces" after the word "Masonry" and also add a new item as follows:

| Surface         | 1st Coat   | Finish Coat       |
|-----------------|------------|-------------------|
| Asbestos Panels | Pre-primed | Armco Std. No. 52 |

Also add the following new Special Provision under Exhibit "E":

"16. The following is a part of The Work:

- (a) Sub-Contractor shall furnish and install all asbestos panels per Section 15 of Specification No. 7128(3-20) and as shown on drawings. The Schedule under Special Provision No. 6 was not intended to encompass this type of panel.
- (b) Sub-Contractor shall install all panels shown on both the furnace side and the pulpit side of the Furnace Pulpit.

Oct. 17, 1968

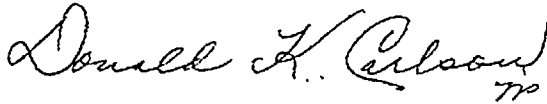
- (c) In the Pulpit, Sub-Contractor shall install the liner panels which are attached to the exterior face of the B.O.F. structure".

All other portions of subject Proposal/Sub-Contract documents are unchanged.

Bidders shall acknowledge receipt of and conformance to this Supplemental Notice No. 3 in the space provided on the signature page of each Proposal/Sub-Contract Form.

Very truly yours,

KAISER ENGINEERS, INC.,  
Agent for Armco Steel Corporation

A handwritten signature in cursive script, reading "Donald K. Carlson". Below the signature is a small handwritten mark that appears to be "710".

Donald K. Carlson  
Project Purchasing Agent

DKC:jp

→ J J. Wagner

KAISER ENGINEERS, INC.

P. O. BOX F

MIDDLETOWN, OHIO 45042

October 9, 1968

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OCT 10 1968

SUPPLEMENTAL NOTICE NO. 2

To Inquiry No. 7128-20619  
(Notice to Bidders with  
Proposal/Subcontract and  
Exhibits dated 9-27-68)

KAISER ENGINEERS  
MIDDLETOWN, OHIO

TO ALL BIDDERS:

In Special Provision No. 9 of Exhibit "E" the words "shall furnish and install firebrick" are hereby changed to "shall install firebrick".

Section 1 - "Shop Drawings" of Exhibit "D" - Standard Conditions sets forth general requirements for submitting drawings for approval, and for permanent records; however, the following additional drawing and data requirements are hereby incorporated as Special Provision No. 15 of Exhibit "E":

- " 15. Sub-Contractor shall submit for Contractor's approval three (3) copies of the electrical wiring diagrams and electrical installation drawings on all heating, ventilating and air conditioning systems. After approval, Sub-Contractor shall submit seven (7) copies and one reproducible of each, as well as seven (7) copies and one reproducible of panel wiring diagrams which need not be approved prior to installation.

Also submit "as-built" revisions if any installations were made not in accordance with the drawings.

Submit eight (8) copies each of Spare Parts Lists, and of Installation, Operation and Maintenance manuals for any major equipment items furnished by Sub-Contractor for heating, ventilating and air-conditioning.

All submittals must be in accordance with the instructions on both sides of Schedule 1 - "Engineering Data Required with Sub-Contract" - Form No. S-12724, which is attached and incorporated herein. Electrical single line schematics, inter-connection and panel wiring diagrams, and operating data are all marked on this form as required submittals."

Bidders shall insert the following in parenthesis before the colon on the second line of Item No. 4 on Page 3 of Exhibit "A" as a qualification concerning the two (2) Electrical Bills of Material:

"(except for <sup>\*</sup>electrical items other than lighting fixtures, wire, conduit, and lamps which are Sub-contractor's procurement and installation responsibility):

All other portions of subject Proposal/Sub-Contract documents are unchanged.

Bidders shall acknowledge receipt of and conformance to this Supplemental Notice No. 2 in the space provided on the signature page of each Proposal/Sub-Contract Form.

Very truly yours,

KAISER ENGINEERS, INC., Agent for  
Armco Steel Corporation



Donald K. Carlson  
Project Purchasing Agent

DKC:jp

\* Contractor's procurement responsibility for only lighting fixtures, wire, conduit, and lamps is clearly set forth in Item 13 of Exhibit "E", and Item 2(g) of Exhibit "B".

# SCHEDULE 1

## ENGINEERING DATA REQUIRED WITH PROPOSAL AND PURCHASE ORDER OR SUB-CONTRACT

|                                                               |                                      |                               |                                                     |                                                   |                                                          |
|---------------------------------------------------------------|--------------------------------------|-------------------------------|-----------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|
| Inquiry No. <b>7128-20619</b>                                 | Specification No. <b>7128 (3-20)</b> |                               | Purchase Order or Sub-Contract No.                  |                                                   |                                                          |
| See Definitions of Engineering Data On Reverse Side           | Required with Quotation              | Required After Purchase       |                                                     |                                                   |                                                          |
|                                                               | 4 Sets "Preliminary"                 | For Approval<br>3 Sets Prints | Certified as Approved<br>7 Sets Prints (See Note b) | Packed with Shipment<br>1 Set Prints (see Note c) | As-Built Print & Reproducible<br>1 Set Each (see Note d) |
| 1. Drawing List                                               |                                      |                               |                                                     |                                                   |                                                          |
| 2. General Arrangement Drawings                               |                                      |                               |                                                     |                                                   |                                                          |
| 3. Detailed Drawings                                          |                                      |                               |                                                     |                                                   |                                                          |
| 4. Dimension Drawings                                         |                                      |                               |                                                     |                                                   |                                                          |
| 5. Electrical Drawings                                        |                                      |                               |                                                     |                                                   |                                                          |
| a. Single Line Drawings                                       |                                      | X                             | X                                                   |                                                   | X                                                        |
| b. Schematic Drawings                                         |                                      | X                             | X                                                   |                                                   | X                                                        |
| c. Interconnection Drawings                                   |                                      | X                             | X                                                   |                                                   | X                                                        |
| d. Panel Wiring Diagrams                                      |                                      |                               | X                                                   |                                                   | X                                                        |
| e. Outline Drawings                                           |                                      |                               |                                                     |                                                   |                                                          |
| 6. Erection Drawings                                          |                                      |                               |                                                     |                                                   |                                                          |
| 7. Foundation Drawings                                        |                                      |                               |                                                     |                                                   |                                                          |
| 8. Piping Drawings                                            |                                      |                               |                                                     |                                                   |                                                          |
| 9. Hydraulic Piping Drawings                                  |                                      |                               |                                                     |                                                   |                                                          |
| 10. Load Diagrams                                             |                                      |                               |                                                     |                                                   |                                                          |
| 11. Performance Data                                          |                                      |                               |                                                     |                                                   |                                                          |
| 12. Weir Part Drawings                                        |                                      |                               |                                                     |                                                   |                                                          |
| 13. Motor List                                                |                                      |                               |                                                     |                                                   |                                                          |
| 14. Quotation for Recommended Spare Parts Showing Unit Prices |                                      |                               |                                                     |                                                   |                                                          |
| 15. Bills of Material                                         |                                      |                               |                                                     |                                                   |                                                          |
| 16. Operating Data                                            |                                      |                               |                                                     |                                                   |                                                          |
| Spare Parts List                                              |                                      |                               | X                                                   |                                                   |                                                          |
| Installation Instructions                                     |                                      |                               | X                                                   |                                                   |                                                          |
| Operating Instructions                                        |                                      |                               | X                                                   |                                                   |                                                          |
| Maintenance Manuals                                           |                                      |                               | X                                                   |                                                   |                                                          |

\*8 copies to the Project Engineer, (address shown below).

### SPECIAL INSTRUCTIONS

- All drawings must be dimensioned in feet and inches. Drawing size must not be less than 18" x 24", nor larger than 24" x 36" without specific written approval from the Purchaser. All prints must be dark line on white background, direct reading type to conform to the minimum requirements for microfilming as shown on the reverse side. We WILL NOT ACCEPT BLUE-PRINTS.
- Certified drawings must be so marked by the Seller: They must conform to approval drawings as finally approved by the undersigned and must be forwarded promptly to the address shown below. Also, when applicable, an additional 2 copies shall be sent to the related equipment builder (address furnished later).
- Data to be packed with shipment is in addition to Packing List specified in the marking and shipping instructions. Containers to be clearly marked "Operating Data and Erection Drawings enclosed."
- Reproducibles shall conform to the standard reproducible specifications as shown on reverse side, and sent to the address shown below.
- One print of each "preliminary" drawing, if required, shall be attached to each copy (priced and unpriced) of the proposal and returned to the addresses indicated in the request for quotation.
- One copy of transmittal correspondence, less data, to be directed to: Kaiser Engineers, Inc., P.O. Box F, Middletown, Ohio, 45042, Attn: Material Controller.
- Drawings for approval, unless otherwise specified, are to be simultaneously directed as follows:

Approval  
3 Prints  
Certified  
7 Prints - 1 Repro.  
To: Kaiser Engineers, Inc.  
P.O. Box "F"  
Middletown, Ohio  
45042  
Attn: Project Engineer H. Wolfe Kamp

Approval  
Prints  
Certified  
Prints  
To: \_\_\_\_\_  
Mark: Spec. No. \_\_\_\_\_  
Attn: \_\_\_\_\_



## DEFINITIONS OF ENGINEERING DATA REQUIRED

1. **Drawing List** - A complete list of all drawings and data, by title, and the drawing submittal schedule which the seller expects to supply on this order.
2. **General Arrangement Drawings** - Outline drawings to scale showing location and size of building facility and/or major equipment, including location of related accessories and entire line arrangements.
3. **Detailed Drawings** - All details of components required for assembly. These shall be cross-referenced to all other drawings.
4. **Dimension Drawings** - Show dimensions required for location of each major piece of equipment.
5. **Electrical Drawings** - All data pertaining to power supply and electrical equipment. Include "one-line" drawings, schematic and interconnection wiring diagrams. All panel, desk, and control station internal wiring diagrams. Outline and arrangement drawings of all panels, desks, and control stations. Outline dimension drawings for all rotating equipment such as motor generator sets, motors, pilot generators, etc.; static power supplies such as transformers, rectifiers, etc., and all control devices such as limit switches, hot metal detectors, push buttons, etc.
6. **Erection Drawings** - All details and data in sequence required for the erection of the facility.
7. **Foundation Drawings** - All dimensions and details required for foundation design including location, blockouts, imbedded items, grout required, size, type and projection of anchor bolts.
8. **Piping Drawings** - All piping drawings except hydraulic piping (See Item 9) furnished with the equipment must show the locations of purchaser's connection points and required flows and pressures. All air piping schematic and interconnection diagrams must be in accordance with J.I.C. standards.
9. **Hydraulic Piping Drawings** - All piping drawing of hydraulic systems must include a graphical diagram using J.I.C. symbols, as described by figure 3 ASA Y14, paragraph 17-4.3. Also a drawing showing sequence of operation, time cycle, operating pressures and flows must be furnished, as described by figure 30 ASA Y14, paragraph 17-9.3 for fluid power diagrams.
10. **Load Diagrams** - Total static and dynamic loads and load centers.
11. **Performance Data** - All performance data including graphs, test reports and other pertinent information for the equipment and machinery of the facility.
12. **Wearing Parts Drawings** - Exact scale drawings showing material of all component parts which require replacement due to wear in normal operation. Heat treat data to be included where applicable.
13. **Motor List** - A complete list of all electric motors supplied including all normal nameplate data.
14. **Quotation for Recommended Spare Parts Showing Unit Prices** - (Complete list including component, manufacturer's name and part number). Spare parts will either be purchased with the equipment or in the future.
15. **Bills of Material** - Complete, detailed Bills of Material shall be supplied prior to shipment. These must show Item No., Shop Order No., Mark, Part No., or Pattern No.; Reference Drawing Description. Packing slips described in the marking and shipping instructions must have the same Item No. and identification as shown on the applicable Bills of Material.
16. **OPERATING DATA** -
  - Spare Parts List** - Should be a complete list or manual (including component manufacturer's name and part number) of all replaceable parts, illustrated if possible.
  - Installation Instructions** - As complete and detailed as possible both for original installation and future removal and replacement of equipment and all components and accessories.
  - Operating Instructions** - Should include all the details necessary to insure proper procedure and sequences of operation.
  - Maintenance Manuals** - All phases of both preventive and repair maintenance are required, including a detailed lubrication chart, showing every point requiring lubrication, the grade of lubricant, schedule for lubrication and where indicated the correct amount of oil or grease necessary for refill after drainage.

## REPRODUCIBLE DRAWING REQUIREMENTS

- A - In addition to the prints required above, the seller shall furnish one (1) complete set of unfolded prints and one (1) set of reproducible of "As-Shipped" drawings of:
- (1) All machinery outlines, general arrangement drawings, all assemblies and details, and complete bill of material.
  - (2) All service piping schematic and interconnection diagrams.
  - (3) All hydraulic piping system schematic and interconnection diagrams.
  - (4) All electrical schematic and interconnection wiring diagrams. All panel, desk, and control station internal wiring diagrams, outline and arrangement drawings.
- B - Reproducibles shall be dark line on white background, direct roading type, first generation reproduction, untouched, on vellum, of one of the following acceptable grades except, electrical schematic diagrams and desk layouts shall be on Mylar film or Linen.
- | For Moist Machine (Fluid) |          |                            |
|---------------------------|----------|----------------------------|
| K&E                       | #26-3145 | Sepia Paper                |
| Bruning                   | #26-200  | Translucent Sepia          |
| Post                      | #444     | Sepia Line Paper VERI-VEL  |
| Dietzgen                  | #254-A   | Directo Sepia Paper        |
| Kodak                     | #AT1     | Autopositive Paper         |
| For Dry Machine (ammonia) |          |                            |
| K&E                       | #21-3145 | Sepia Line Paper           |
| Bruning                   | #30-1124 | Sepia Line Paper           |
| Post                      | #209     | Standard Sepia Line Paper  |
| Dietzgen                  | #244     | Dry Print Sepia Line Paper |
| Kodak                     | #AT1     | Autopositive Paper         |
- C - All reproducible shall be full-size copy, with no grouping of drawings permitted. Our standard drawing size is 24" x 36", however, we will accept smaller size drawings when printed individually, and full size, on one 18" x 24" reproducible.

## MINIMUM DRAFTING STANDARDS FOR MICROFILM PRACTICE

### A - LETTERING

- (1) Only one (1) style of lettering shall be used throughout each drawing.
- (2) All lettering shall be at least 1/8" high.
- (3) Single stroke Gothic upper case lettering is preferred.
- (4) Either vertical or inclined style is approved.
- (5) The size of the lettering shall not vary according to the size of the format, or the scale at which the drawing is made.
- (6) Space between lines of lettering shall be 1/2 to 1-1/2 times the letter height, depending upon whether common fractions are included.
- (7) The dividing line between the numerator and denominator, in common fractions, shall be horizontal if hand lettered.
- (8) Lettering shall be made with HB Grade (or softer) lead.

S-12425 REV. 6-68

### B - LINE QUALITY

- (1) All lines, regardless of width, shall be of uniform density. Width variations will comprise "Alphabet of Lines", not density variation.
- (2) Pencil lines made with 4H Grade and harder lead are not acceptable.
- (3) Closely spaced section lining shall be avoided.
- (4) Parallel dimension lines shall be spaced not less than 1/4" apart.
- (5) No dimension line shall be closer than 3/8" to the outline of the part.

### C - TITLE BLOCK

A 3" x 6" space shall be provided within the body of the drawing (preferably in the lower right hand corner) for the addition by Armo of an appropriate title block.

KAISER ENGINEERS, INC.

P. O. BOX F

MIDDLETOWN, OHIO 45042

October 3, 1968

SUPPLEMENTAL NOTICE NO. 1

To Inquiry No. 7128-20619  
(Notice to Bidders with  
Proposal/Subcontract and  
Exhibits dated 9-27-68)

TO ALL BIDDERS:

With reference to the "Type of Construction" shown for Room No. 32 in the schedule shown under Special Provision No. 6 on Page 2 of Exhibit 'E', Masonry ('M') is hereby changed to Pre-Fabricated Steel Building ("PFS"), and Bidders shall so correct their respective file copies of this page.

Contractor is contemplating the possibility of doing its own erection of the seven (7) Armco Steel Pre-Fabricated Buildings described in the first five (5) paragraphs of Section 4.1.2 of Specification No. 7128(3-20), which are identical to the first seven (7) items of the schedule under Special Provision No. 6, (including the correction to Room No. 32 as set forth above). Concerning this optional take-out of such work described in Specification Section 4, and not applicable to any other type of work in such buildings, such as door installation, heating, air conditioning, etc. Bidder shall complete, sign and return with its completed proposal forms three (3) copies of the attached memorandum entitled "optional take-out price proposal".

Attached and incorporated herein are the following three (3) revised pages changing and clarifying electrical work responsibilities which are hereby incorporated into subject documents superseding pages previously forwarded bearing the same Exhibit letter designations and page number designations:

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KAISER ENGINEERS, INC.

October 3, 1968

Exhibit "B" - Items to be Supplied by Contractor:

Pages 2 and 3 only.

Exhibit "E" - Special Provisions:

Page 4 only.

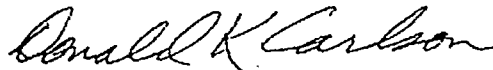
You are instructed to destroy the three (3) superseded pages and insert the three (3) revised pages (each is printed "Rev. 10-3-68").

All other portions of subject Proposal/Subcontract documents are unchanged.

Bidders shall acknowledge receipt of and conformance to this Supplemental Notice No. 1 in the space provided on the signature page of each Proposal/Subcontract form.

Very truly yours,

KAISER ENGINEERS, INC., Agent for  
Armco Steel Corporation



Donald K. Carlson  
Project Purchasing Agent

DKC:jp

- e) Section 17 - Heating, Ventilating and Air Conditioning - Only those items listed in the following Heating, Ventilating and Air Conditioning Bills of Material will be furnished by Contractor. Such items will be loaded by Contractor on Subcontractor's trucks at Contractor's storage compound on the site:

659786-P (Furnace Pulpit) Sheets 1 thru 11

659787-P (Pit Foreman's Area) Sheets 1 thru 7

659789-P (Lunch Room) Sheets 1 thru 4

659838-P (Charging Side Control Sta's.) Sheet 1

- f) Section 18 - Service Piping Systems - In addition to "materials by Contractor" as stated in Item No. 1 hereof, and also stated in Sub-section 18.3.1, all material and work is "by Contractor" for sanitary and drinking water systems including all necessary piping, plumbing, toilet fixtures, water heaters, and drinking fountains. Such systems and equipment are not within the scope of this section or within the Subcontract since Sub-section 18.1 (SCOPE) clearly limits Subcontractor's responsibility to steam, condensate, and air service systems complete with equipment but mention is made here of other systems for clarification purposes only.

- g) Section 19 - Electrical - All lighting fixtures, wire, conduit, and lamps loaded by Contractor on Subcontractor's trucks at Contractor's storage compound. In connection therewith, refer to Electrical Bills of Material listed under Item No. 4(b) of Exhibit "A". Also, the Subcontractor has no electrical responsibility whatsoever in the following rooms (all such electrical material and work by Contractor):

Room No. 12 - Booster Pump Enclosure

Room No. 19D - Motor Control Center

Room Nos. 27 & 28 - Air Lock No. 1 and No. 2

Room No. 34 - Grease Storage

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Contractor has complete electrical responsibility for items and systems which are not a part of the Heating, Ventilating and Air Conditioning systems in the following rooms:

Room No. 16 - Scale House

Room No. 26 - Furnace Pulpit

Room No. 20 - Mechanical Room

3. Source of potable water.
4. Sources of temporary electrical power in the vicinity of the work - 440 volt, 3 phase, and 110 volt, single phase.
5. All furniture and Basic Oxygen Shop process equipment and systems including control systems in place (also alarm in pulpit).
6. All steel joists, metal decking, and monorail loaded by Contractor on Subcontractor's trucks at Contractor's storage compound.
7. Furnish and install support steel for condenser unit C-1 and channel base for heat pump HP-1.

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9. Subcontractor shall furnish and install firebrick along the west wall of the electrical control center since the condition on the face of that wall shall be the same as that shown on Drwgs. 659516 and 659457 where firebrick is shown in the Booster Pump Enclosure and extending along one face of the motor control center.
10. As a part of its electrical responsibility, Subcontractor shall furnish all required electrical accessories such as conduit, boxes, outlets, switches, and conduit fittings, but, pursuant to Item 2(g) of Exhibit "B", Subcontractor is not required to furnish any lighting fixtures, wire, conduit, or lamps. Subcontractor has complete electrical responsibility for work and material except for furnishing the aforementioned four (4) items, in all rooms and structures listed herein other than those rooms and structures where its electrical responsibility is exempted in whole or in part by the listings of rooms in Item 2(g) of Exhibit "B".
11. Subcontractor's piping responsibility is limited to piping which is a part of the systems for Heating, Ventilating and Air-Conditioning; steam, condensate, and air piping, and all such piping materials are furnished by Contractor pursuant to Item 1 of Exhibit "B".
12. The Bills of Material (designated as "Partial") listed under Item No. 3 do not represent all of the items that must be purchased by Subcontractor, over and above Contractor - furnished items (Bills of Material under Item 4(a)). Temperature control components are to be purchased by Subcontractor but none are shown; other items may also be missing and it is agreed that Subcontractor shall not plead deception because of the incompleteness of the Bills of Material under Item No. 3. However, in defining Contractor's responsibility to furnish non-electrical materials for Heating, Ventilating and Air-Conditioning the Bills of Material under Item 4(a) are complete. These are not designated "Partial".
13. Inasmuch as Item 2(g) of Exhibit "B" states that Contractor will furnish all lighting fixtures, wire, conduit, and lamps, it is agreed that if more of these items are required than are shown on the Bills of Material listed under Item 4(b) of Exhibit "A", Contractor will provide the balance.
14. Sub-section 17.9.11 of Exhibit "A" Specification No. 7128(3-20) is deleted in its entirety (alarm bell is furnished and installed by others).

Rev. 10-3-68

TO: Kaiser Engineers, Inc.  
(Contractor, Agent for Armco Steel Corporation)

Subject: OPTIONAL TAKE-OUT PRICE PROPOSAL.

We hereby offer a price deletion in the amount of \$ \_\_\_\_\_  
in the event "Contractor" exercises the "take-out" option  
described in the second paragraph of Supplemental Notice No. 1  
dated October 3, 1968, to Inquiry No. 7128-20619, dated  
September 27, 1968.

(Name of Bidder) \_\_\_\_\_

(Signed) \_\_\_\_\_

(Date) \_\_\_\_\_

# INTER-OFFICE MEMORANDUM

TO Vern L. Frankson  
AT Middletown, Ohio - N. Main St.

DATE September 30, 1968

FROM Don Carlson

COPIES TO Please see distribution

AT Middletown, Ohio  
N. Main St.

JOB NO. 7128

SUBJECT Inquiry No. 7128-20169 - Miscellaneous Structures  
Distribution of Subcontract Bid Package.

Attached is a copy of subject package, mailed to or picked up by the following bidders:

McGraw Construction Co.  
1st & Canal Sts.  
Middletown, Ohio  
Att: W. Lewis

S-K Construction Co.  
2514 Atco Avenue  
Middletown, Ohio

\*Gold Key Builders  
1700 Needmore Road/Suite 104  
Dayton, Ohio 45414  
Att: Tom Deger

\* Subsidiary of Oberer Construction Co.

Bid due date is October 21, 1968. (All work to be completed in four months; November, December, January, February)

DKC:jp

cc: Armco

Kaiser

H. W. Borneman  
T. R. Foley  
R. W. Adams  
P. R. Smith  
J. S. Lotz  
Reading File

D. A. Daly  
G. L. Roberts  
C. W. Graff  
S. Hansen  
R. C. Hulseman  
B. Scott  
J. J. Wagner  
H. Wulfekamp

C. H. Swain  
C. Billings  
F. N. Norton  
M. D. Wilson  
L. J. Gillett - Oakland  
R. J. Wolf - Oakland  
R. D. Sahlberg - Butler (FIO)

NOTICE TO BIDDERS

Inquiry No. 7128-20619

Date: September 27, 1968

Proposals will be received by Kaiser Engineers, Inc., as Agent for Armco Steel Corporation (hereinafter called "Contractor"), in accordance with the attachments hereto, for performing the work set forth in the attached Proposal.

Proposals, in quintuplicate, shall be submitted only on the attached Proposal form, and shall be presented or mailed by the party executing said Proposal (hereinafter called "Bidder").

Proposals shall be presented or mailed under sealed cover to Kaiser Engineers, Inc., Attention Mr. Vern L. Frankson, Manager - Procurement, P. O. Box F, Middletown, Ohio, 45042. The envelope containing the Proposal shall be conspicuously marked as follows:

INQUIRY NO. 7128-20619

Miscellaneous

Structures

DUE DATE: Proposals will be received by Contractor at the above address on or before Oct. 21, 1968 3:00 P.M., Eastern Standard Time.

LATE PROPOSALS WILL NOT BE CONSIDERED: Contractor assumes no responsibility for late delivery of Proposals, whether due to delays in U. S. Mail Service or otherwise, or for the loss of mishandling of Proposals.

WITHDRAWAL: The Proposal may be withdrawn by Bidder at any time prior to the above due date by submitting written Notice of Withdrawal to Contractor prior to due date without prejudicing Bidder's right to file another Proposal, provided such other Proposal complies with the terms and conditions hereof, and is received by Contractor on or before the due date set forth above.

REFERRALS: Proposals shall be submitted by Addressee only unless written permission to refer Proposal and attachments to another firm is first obtained from Contractor.

REJECTION: Altered, amended, modified, incomplete, or conditional Proposals may be rejected. Proposals are to be submitted by Bidder, and will only be considered by Contractor, upon the express understanding that Contractor reserves the unconditional right to reject any or all Proposals, and to waive irregularities therein, and the right in Contractor's absolute discretion to accept any particular Proposal submitted by any Bidder, even though the price or completion date, or both specified therein, may not be as favorable as any other Proposal.

NOTICE TO BIDDERS

-2-

Inquiry No. 7128-20619

SUB-CONTRACT PROVISION: Enclosed is an instrument designated Sub-Contract, which sets forth the terms, conditions, and provisions which shall be applicable to the proposed work.

ALTERNATE BIDS: Proposals must be based upon the plans and specifications without deviation. Bidders are not to submit alternate Proposals separate from the base Proposal unless specifically called for in this Notice to Bidders.

QUALIFICATION: Contractor may require evidence that Bidder is properly qualified and licensed to transact business in the state where the work is to be performed as a condition precedent to an award of the work hereunder.

SITE VISITATION: Bidders shall be deemed to have visited the site of the work and to have made all necessary investigations so as to have ascertained fully all pertinent conditions which may in any manner bear upon the performance of the work and the price to be proposed for the performance thereof, such as, but not limited to, the location, accessibility and general character of the site, labor conditions, character and extent of existing work within or adjacent thereto, and other work being performed thereon.

Bidders wishing to visit the jobsite must make arrangements forty-eight (48) hours prior to arrival by contacting Mr. S. J. Hansen - Subcontract Engineer at telephone Area Code 513-425-3033.

WAGES AND WORKING CONDITIONS: Bidders shall ascertain the wages and working conditions required by the Unions affiliated with the Building Trades Department (AFL-CIO) having jurisdiction over the work during its entire course. If awarded the Sub-Contract for the work, Bidder shall comply in all respects with the article of the Sub-Contract General Terms and Conditions entitled "Labor Provisions".

ADDITIONAL INFORMATION: Bidders requesting additional information regarding this bid, are advised to address their inquiries in writing to Kaiser Engineers, Inc., P. O. Box F, Middletown, Ohio 45042, Attention D.K. Carlson - Proj. Purch. Agent or telephone 425-2256. Such inquiries or requests must be submitted in sufficient time prior to Proposal due date to enable Contractor to issue any necessary supplemental notices to this Notice to Bidders.

Notice to Bidders

-3-

RETURN OF PLANS AND SPECIFICATIONS: All Plans and Specifications enclosed herewith are the property of Contractor or Owner. Upon receipt of Notice of Award of the work to another Bidder, unsuccessful Bidders must promptly return all Plans and Specifications to Contractor.

Sincerely yours,

KAISER ENGINEERS, INC., Agent for  
Armco Steel Corporation



Vern L. Frankson  
Manager - Procurement

VLF:jp

PROPOSAL/SUB-CONTRACT

Date of Proposal: October , 1968 Date of Sub-Contract:

Proposal Number: 7128-20619 Sub-Contract Number:

Bidder:

This Proposal/Sub-Contract is hereby submitted to Kaiser Engineers, Inc. (hereinafter called "Contractor") Agent for Armco Steel Corporation, (hereinafter called "Owner").

ACCEPTANCE: Contractor's acceptance of this Proposal/Sub-Contract shall be accomplished by Contractor's execution thereof and its insertion of a Sub-Contract Number and date as provided for above. Contractor will return to the Successful Bidder one (1) signed and completed copy hereof. Upon such acceptance, the Proposal/Sub-Contract shall constitute a Sub-Contract between Contractor and the undersigned Successful Bidder and shall thereafter be designated by the Sub-Contract Number specified above, and wherever the term "Bidder" is written herein it shall be construed to mean "Sub-Contractor", and wherever the words "Proposal/Sub-Contract" are written they shall be construed to mean "Sub-Contract".

ACKNOWLEDGMENT: Bidder acknowledges that he has visited and has thoroughly examined the site of the proposed work, and without limitation, has ascertained fully all pertinent conditions which may in any manner bear upon the performance of the work herein proposed and the compensation Bidder proposes therefor; acknowledges receipt of and familiarity with and understanding of the plans and specifications therefor, as well as the various instructions, information, requirements, exhibits, terms and conditions covering the same, all as mentioned or referred to herein.

REJECTION: It is recognized and understood that Contractor has reserved the unconditional right to reject any or all proposals or to waive irregularities therein. It is further recognized and understood that Contractor has reserved the right in its absolute discretion to accept any particular proposal submitted by any bidder even though the price or completion date, or both, specified therein may not be so favorable as those set forth in some other proposal.

QUALIFICATION: Contractor may require evidence that Bidder is properly qualified and licensed to transact business in the state where the work is to be performed as a condition precedent to an award of the work hereunder.

WAGES AND WORKING CONDITIONS: Bidder shall ascertain the wages and working conditions required by the Unions affiliated with the Building Trades Department (AFL-CIO) having jurisdiction over the work during its entire course. Bidder shall comply in all respects with Article 28 of the Sub-Contract General Terms and Conditions entitled "Labor Provisions".

FACE SHEET "A"

WORK TO BE PERFORMED: Bidder hereby agrees to perform all the work described in and in strict accordance with this Proposal/Sub-Contract and the following attached documents which are by this reference incorporated as part of this Proposal/Sub-Contract:

Subcontract General Terms and Conditions (Article 1 thru 37)  
Exhibit 'A' - Plans, Drawings and/or Specifications  
Exhibit 'B' - Items to be Supplied by Contractor  
Exhibit 'C' - General Work Schedule  
Exhibit 'D' - Standard Conditions  
Exhibit 'E' - Special Provisions  
Supplemental Notices listed on Face Sheet 'C'

Without limiting the generality of the foregoing, the work to be performed includes the following:

SCOPE OF WORK: Furnish all labor, tools, supervision, materials, supplies, equipment, and transportation, and do all things necessary, except as provided for in Exhibit 'B' hereof, to construct miscellaneous metal or masonry structures and rooms within the Basic Oxygen Shop, or the vicinity thereof, and to make such structures and rooms architecturally and structurally complete, and to install therein where applicable heating, ventilation, and air conditioning systems, and piping, lighting and electrical services, all in strict accordance with Exhibit 'A'; all such work being hereinafter sometimes called "The Work".

BOND: Not required.

LIQUIDATED DAMAGES: None. Article 31 of the General Terms and Conditions hereof is inapplicable and is hereby deleted.

LOCATION OF WORK: Owner's Middletown, Ohio Works.

WORK TO COMMENCE: Offsite work as of the date of acceptance of this Proposal/Sub-Contract with field work to commence on date specified in Contractor's Notice to Proceed.

WORK TO BE COMPLETED: Time is of the essence of this Proposal/Sub-Contract and all the work shall be completed by Bidder as soon as due diligence and good practice will permit, but in no event later than March 1, 1969, or such extended completion date as may be applicable in accordance with, and pursuant to the provisions of Article 15 of the General Terms and Conditions hereof.

FACE SHEET 'B'

COMPENSATION: Bidder agrees to perform The Work for the following Compensation, which include all present and future, State, Federal and Local Exise and Transportation Taxes, and all other taxes pertaining to the transaction, except the Ohio Sales and Use Tax applicable under the following circumstances:

Any Ohio Sales and Use Tax Liability on personal property transferred under the Subcontract by the Subcontractor to Owner, will be accounted for by Owner under its Direct-Payment Permit No. 161-M. Any Ohio Sales and Use Tax Liability for materials transferred to Owner as improvements to Owner's real property will be determined by Subcontractor in cooperation with Owner; such tax is Subcontractor's direct responsibility, but Owner will reimburse Subcontractor over and above the price stated below for the amount of such tax.

LUMP SUM AMOUNT \$ \_\_\_\_\_

Bidder acknowledges receipt of Supplemental Notices specified below which are hereby incorporated and made a part of this Proposal/Subcontract.

The offer expressed by Bidder in this Proposal/Subcontract shall be binding upon Bidder for a period of 60 days from date of Proposal/Subcontract and may be accepted any time on or prior to said date.

SUPPLEMENTAL NOTICES RECEIVED:

\_\_\_\_\_  
No. and Date  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signed: \_\_\_\_\_  
(Bidder)

\_\_\_\_\_  
(Address)

By : \_\_\_\_\_  
Title : \_\_\_\_\_

ACCEPTED THIS \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

KAISER ENGINEERS, INC., Agent for  
Armco Steel Corporation  
(Contractor)

By \_\_\_\_\_

Title \_\_\_\_\_

FACE SHEET 'C'

EXHIBIT 'A'

PLANS, DRAWINGS, AND SPECIFICATIONS

1. Specification No. 7128(3-20) dated September 18, 1968, "Miscellaneous Structures".
2. DRAWINGS:

| <u>No. &amp; Rev.</u> | <u>Description</u>                   |
|-----------------------|--------------------------------------|
| 625128 0              | Plot Plan - General                  |
| 659001 11             | Melt Shop - General                  |
| <u>Architectural</u>  |                                      |
| 659450 5              | Plan - Kitchen Floor - Pt. I         |
| 659451 7              | Plan - Kitchen Floor - Pt. II        |
| 659452 4              | Plan - Operating & Service Floors    |
| 659454 4              | Plan - Batching, Piping, Flux Floors |
| 659454 4              | Plan - Roof                          |
| 659457 2              | Building Sections (1)                |
| 659458 3              | Building Sections (2)                |
| 659465 2              | Pit Foreman Area                     |
| 659466 3              | Interior Wall Details                |
| 659467 2              | Scale House                          |
| 659472 2              | Pulpit - Plans and Elevations        |
| 659473 2              | Pulpit - Sections & Details          |
| 659474 3              | Pulpit - Sections & Details          |
| 659476 2              | Maintenance Office                   |
| 659477 6              | Yard Workers Lunch Room              |
| 659478 1              | Toilet Rooms No. 3 & No. 7           |
| 659510 8              | Door Schedule                        |

|        |   |                        |
|--------|---|------------------------|
| 659515 | 5 | Room Finish Schedule   |
| 659516 | 2 | Booster Pump Enclosure |
| 659518 | 2 | Motor Control Center   |

Heating, Ventilating, and Air Conditioning

|        |   |                                                 |
|--------|---|-------------------------------------------------|
| 659762 | 2 | Compressed Air 0-150 PSIG                       |
| 659765 | 3 | Steam - 425 PSIG at 750°                        |
| 659785 | 0 | Furnace Pulpit, Toilet No. 6                    |
| 659786 | 2 | Pulpit & Maintenance Schematic                  |
| 659787 | 2 | Pit Foreman's Office                            |
| 659788 | 0 | Maintenance Office                              |
| 659789 | 1 | Hot Metal Scale Pulpit H. & V.                  |
| 659799 | 1 | Steam Distribution Sheet 1 of 2                 |
| 659800 | 1 | Steam Distribution Sheet 2 of 2                 |
| 659835 | 0 | Steam Condensate Details                        |
| 659838 | 1 | Charging Side Control Stations                  |
| 659839 | 3 | Piping Material Specs - Piping Legend           |
| 659864 | 2 | Process & Service Piping - General Distribution |
| 659867 | 1 | Process & Service Piping - General Distribution |

Electrical

|        |   |                                    |
|--------|---|------------------------------------|
| 660161 | 4 | Lighting - Misc. Office & Toilets  |
| 660162 | 1 | Lighting - Misc. Offices & Toilets |

3. Partial Bills of Material (not complete; for reference only) of Items for Heating, Ventilating and Air-Conditioning to be supplied by Subcontractor (all items on these sheets are marked "Project"):

- \*659785 (Furnace Pulpit) Sheets 1 thru 5
- \*\*659788 (Maintenance Office) Sheets 1 thru 5
- 659789-P (Hot Metal Scale House) Sheet 5 Rev. 1
- \*Sheet 3, Rev. 1 (other sheets, Rev. 0)
- \*\*Sheet 4, Rev. 1 (other sheets, Rev. 0)

4. Bills of Material of Items to be Supplied by Contractor in accordance with Exhibit 'B' references:

(a). Heating, Ventilating and Air Conditioning

\*659786-P (Furnace Pulpit) Sheets 1 thru 11

659787-P (Pit Foreman's Area) - Sheets 1 thru  
7 Rev. O.

659789-P (Y.W. Lunch Room) - Sheets 1 thru 4  
Rev. O.

659838-P (C.S. Control Stations) Sheet 1,  
Rev. O.

\* Sheet 4, Rev. 1 (other sheets, Rev. O).

(b) Electrical

660161 Rev. No. 3 - Melt Shop Lighting - Misc.  
Offices & Wash Room -  
Sheets 1 and 2.

660162 Rev. O - Melt Shop Lighting - Misc.  
Offices & Wash Room -  
Sheets 1 and 2.

EXHIBIT 'B'

Items to be Supplied by Contractor

1. All items referred to in Sub-Section 4.2.1 (including all Armco Materials mentioned in paragraphs 1-8 of Sub-Section 4.1.2) of Specification No. 7128(3-20) under Section 4 - "Metal Buildings, Siding, and Roofing" and in Sub-Section 18.3.1 under Section 18 - "Service Piping Systems". Steel panel or steel building components under 4.2.1 shall be delivered by Contractor to the erection sites, and items under 18.3.1 (all steam, condensate, and air pipe, pipe fittings, valves, valve tags, and imprinted color coded pipe banding tape) shall be furnished and loaded by Contractor on Subcontractor's trucks at Contractor's storage compound.
2. This exhibit, in addition to confirming the "material by others" references in Sections 4 and 18 of Specification No. 7128(3-20) also clarifies the responsibilities for certain materials and work by listing the following items of material or work to be provided by Contractor under the applicable Specification Sections:
  - a) Section 1 - Concrete - All concrete shall be delivered to Subcontractor in ready-mix trucks to discharge points. Concrete slabs and curbs are not a part of "The Work" and will be provided by Contractor, including openings for duct penetration.
  - b) Section 3- Refractory - All firebrick loaded by Contractor on Subcontractor's trucks at Contractor's storage compound. Also, Contractor will furnish and install firebrick for encasement of Columns F-23.5 and E.5-23.5.
  - c) Section 5 - Built-Up Roofing and Insulation: All metal decking loaded by Contractor on Subcontractor's trucks at Contractor's storage compound.
  - d). Section 6 - Metal Doors and Frames - and  
Section 8 - Hardware

All material referred to in the above two sections will be loaded by Contractor on Subcontractor's truck at Contractor's storage compound as required for steel or masonry structures, walls, partitions.

Exhibit B continued

- e) Section 17 - Heating, Ventilating and Air Conditioning - Only those items listed in the following Heating, Ventilating and Air Conditioning Bills of Material will be furnished by Contractor. Such items will be loaded by Contractor on Subcontractor's trucks at Contractor's storage compound on the site:

659786-P (Furnace Pulpit) Sheets 1 thru 11

659787-P (Pit Foreman's Area) Sheets 1 thru 7

659789-P (Lunch Room) Sheets 1 thru 4

659838-P (Charging Side Control Sta's.) Sheet 1

- f) Section 18 - Service Piping Systems - In addition to "materials by Contractor" as stated in Item No. 1 hereof, and also stated in Sub-section 18.3.1, all material and work is "by Contractor" for sanitary and drinking water systems including all necessary piping, plumbing, toilet fixtures, water heaters, and drinking fountains. Such systems and equipment are not within the scope of this section or within the Subcontract since sub-section 18.1 (SCOPE) clearly limits Subcontractor's responsibility to steam, condensate, and air service systems complete with equipment but mention is made here of other systems for clarification purposes only.

- g) Section 19 - Electrical - All lighting fixtures, wire, conduit, and lamps loaded by Contractor on Subcontractor's trucks at Contractor's storage compound. In connection therewith, refer to Electrical Bills of Material listed under Item No. 4(b) of Exhibit 'A'. Also, the Subcontractor has no electrical responsibility whatsoever in the following rooms (all such electrical material and work by Contractor):

Room No. 12 - Booster Pump Enclosure

Room No. 26 - Furnace Pulpit

Room No. 20 - Mechanical Room.

NOT TRUE - SUB  
MUST DO ELECTR. COMM.  
FOR HVE A/C IN THESE  
ROOMS

3. Source of potable water.
4. Sources of temporary electrical power in the vicinity of the work - 440 volt, 3 phase, and 110 volt, single phase.

Exhibit B, continued

5. All furniture and Basic Oxygen Shop process equipment and systems including control systems in place (also alarm in pulpit).
6. All steel joists, metal decking, and monorail loaded by Contractor on Subcontractor's trucks at Contractor's storage compound.
7. Furnish and install support steel for condenser unit C-1 and channel base for heat pump HP-1.

EXHIBIT 'C'

GENERAL WORK SCHEDULE

It is anticipated that work can proceed within fifteen (15) days of the contract signing. Completion of all of the work in each structure or room should be in accordance with the schedule below:

| <u>Name</u>                       | <u>Date</u>      |
|-----------------------------------|------------------|
| Motor Control Center              | December 1, 1968 |
| Air Locks No. 3, 4, and 5         |                  |
| Pulpit                            | December 1, 1968 |
| Mechanical Room                   | December 1, 1968 |
| Air Locks No. 1 and 2             | December 1, 1968 |
| Booster Pump Enclosure            | January 1, 1969  |
| Scale House                       | January 1, 1969  |
| Pit Foreman's Area                | January 1, 1969  |
| Maintenance Office                | January 1, 1969  |
| Toilets, except<br>Toilet No. 2   | February 1, 1969 |
| Lunch Room                        | March 1, 1969    |
| Toilet Room No. 2                 | March 1, 1969    |
| Grease Storage                    | March 1, 1969    |
| All other structures and<br>rooms | March 1, 1969    |

EXHIBIT 'E'

SPECIAL PROVISIONS

It is mutually understood and agreed that the following Special Provisions are hereby incorporated:

1. Wherever in the Armco Standard Specifications incorporated in Specification No. 7128 (3-20) of Exhibit 'A' the words "Contractor" and "Engineer" appear, they shall be construed to mean "Sub-Contractor" and "Contractor/Owner" respectively. The foregoing definition of terms supersedes the definitions set forth on Page 1 of the Concrete Manual which is a part of the Armco Standard Specifications.
2. Section 14, "Use of Armco Materials", of Exhibit 'D' is hereby modified by the addition of the following sentence at the end of the paragraph: "All other steel products used must be manufactured in the United States".
3. Contractor will endeavor to make areas available to Sub-contractor in sequence so that intermittent work is kept to an absolute minimum.
4. Freight elevator service will be available on a first come first serve basis.
5. Subcontractor has sole and complete responsibility to procure and furnish all material necessary and to perform all of the work described in the following sections of Exhibit 'A'. Specification No. 7128(3-20); this is part of the work generally referred to on Face Sheet 'A' hereof as "making architecturally complete": ?

| <u>Section No.</u> | <u>Title</u>                                                  |
|--------------------|---------------------------------------------------------------|
| 2                  | Masonry - Concrete Block                                      |
| 5                  | Built-up Roofing and Insulation<br>(except for metal decking) |
| 7                  | Glass and glazing                                             |
| 9                  | Ceiling Insulation                                            |
| 10                 | Suspended Acoustical Ceilings                                 |
| 11                 | Seamless Resilient Flooring                                   |
| 12                 | Resilient Floor Tile                                          |
| 13                 | Metal Toilet Compartments                                     |
| 14                 | Caulking                                                      |

15 Miscellaneous Items  
16 Painting

6. The following is a schedule of the "structures and rooms" referred to in the "Work to be Performed" paragraph on Face Sheet 'A' hereof, with each categorized as to type of construction; masonry (M), pre-fabricated steel building (PFS), or steel panel (Panel) construction, and with each designated as to whether it requires heating, ventilating, and air conditioning or built-up roof, all as shown on the drawings hereof (in the event of conflict with Schedule; drawings govern):

| Room No.   | Title                                    | Type of Constr. | H.V. & A/C                     | Built Up Roof |
|------------|------------------------------------------|-----------------|--------------------------------|---------------|
| 32         | Toilet No. 2                             | M               | No                             | No            |
| 34         | Grease Storage                           | PFS             | No.                            | No.           |
| 19D        | Motor Control Center                     | PFS             | No.                            | No            |
| 16         | Scale House                              | PFS             | Yes                            | No            |
| 24         | Maintenance Office<br>(24 A thru 24 G)   | PFS             | Yes<br>(except 24F-pipe space) | No            |
| 6          | Lunch Room                               | PFS             | Yes                            | No            |
| 9          | Pit Foreman's Area<br>(Incl. 9A, 9B, 9C) | PFS             | Yes<br>(except 9B-pipe space)  | No            |
| 20         | Mechanical room                          | Panel           | Yes                            | Yes           |
| 22         | Covered Walkway<br>(approx. 30')         | Panel           | No                             | Yes           |
| 29, 35, 36 | Nos. 3, 4, & 5 Air Locks                 | M               | No                             | Yes           |
| 11         | Toilet Room No. 3                        | M               | No                             | No            |
| 12         | Booster Pump Enclosure                   | M               | No                             | No            |
| 27, 28     | Air Locks No. 1 & 2                      | Panel           | No                             | No            |
| 10, 31A    | Pipe Spaces                              | M               | No                             | No            |
| 26         | Furnace Pulpit                           | Panel           | Yes                            | Yes           |
| 21, 31     | Toilet Rooms 6, & 7                      | M               | No                             | No            |
| --         | Charging S. Control Sta.                 | N/A             | *Yes                           | No            |

\*(Only work is sheet metal duct)

Exhibit 'E' continued

7. With respect to structures made of steel wall panels, (not pre-fabricated buildings) the installation of wall panels which are integral with the exterior face of B-O-F structure is the responsibility of Contractor, and not a part of "The Work". This exclusion applies to the Covered Walkway, with only about thirty (30) lineal feet of siding remaining as a part of Subcontractor's work. The personnel door and frame in the walkway will be furnished by Contractor and installed by Subcontractor (glass and glazing also by Subcontractor).

WHERE?

8. Specification No. 7128(3-20) of Exhibit 'A' is modified as follows:

- a) Section 2 - Wherever "refractory wall" appears this shall be construed to mean "refractory walls".
- b) Section 4 - In the last sentence of paragraph (6) of sub-section 4.1.2 delete the word "entire" in front of "walkway" and insert at the end of the sentence:

"except for approximately thirty (30) lineal feet of wall panels as set forth in the Special Provision No. 7 of the Proposal/Subcontract documents".

- c) Section 17 - In sub-section 17.1.2 insert in parenthesis after the first item "(the only work involved is installing a sheet metal duct)" and, in the second item between the words "Furnace Pulpit" and "Toilet No. 6" insert the words "Mechanical Room". Also, add the following new items:

"(5) Pit Furnace Area as shown on Drawing No. 659787.

(6) Lunch Room as shown on Drawing 659789."

- d) Section 18 - In the third line of the first paragraph place a comma after "steam" and insert the word "condensate" before the words "and air service piping systems".

Exhibit 'E' continued

9. Subcontractor shall furnish and install firebrick along the west wall of the electrical control center since the condition on the face of that wall shall be the same as that shown on Drawings 659516 and 659457 where firebrick is shown in the Booster Pump Enclosure and extending along one face of the motor control center.
10. As a part of its electrical responsibility, Subcontractor shall furnish all required electrical accessories such as conduit boxes, outlets, switches, and conduit fittings, but, pursuant to Item 2(g) of Exhibit 'B', Subcontractor is not required to furnish any lighting fixtures, wire, conduit, or lamps.
11. Subcontractor's piping responsibility is limited to piping which is a part of the systems for Heating, Ventilating and Air-Conditioning; steam, condensate, and air piping, and all such piping materials are furnished by Contractor pursuant to Item 1 of Exhibit 'B'.
12. The Bills of Material (designated as "Partial") listed under Item No. 3 do not represent all of the items that must be purchased by Subcontractor, over and above Contractor - furnished items (Bills of Material under Item 4(a)). Temperature control components are to be purchased by Subcontractor but none are shown; other items may also be missing and it is agreed that Subcontractor shall not plead deception because of the incompleteness of the Bills of Material under Item No. 3. However, in defining Contractor's responsibility to furnish non-electrical materials for Heating, Ventilating and Air-Conditioning the Bills of Material under Item 4(a) are complete. These are not designated "Partial".
13. Inasmuch as Item 2(g) of Exhibit 'B' states that Contractor will furnish all lighting fixtures, wire, conduit, and lamps, it is agreed that if more of these items are required than are shown on the Bills of Material listed under Item 4(b) of Exhibit 'A', Contractor will provide the balance.