



Inter-Office Correspondence

HAWAIIAN ELECTRIC
CO
KMAE# 3 & 4
(AMFAC)

5067 & 12867

To: John Dickhoff

March 29, 1993

cc: Frank Christenson (w/R&I P.O. att.)
Maryann Tower

M. J. Hornik

Re: Hawaiian Electric Co.
Kahe Station Unit Nos. 3 & 4
Contract Nos. 5067 & 12867

CVCS
Windsor 611-RB2

As a result of my recent review of Hawaiian Electric Co. contracts, the above two contracts were reviewed and boiler/insulation reports are presented below for input into database:

Contract No. 5067 Hawaiian Electric Co., Kahe Station - Unit No. 3, Honolulu, Hawaii

Purchaser: Amfac Inc.
Honolulu, Hawaii

Contract Administration and Engineering files are missing. This report is prepared from available information. Also for further details on materials supplied as part of CE's setting work scope, see boiler/insulation report on exact duplicate Contract No. 12867, which follows (Unit 4/Kahe Station).

CE furnished (1) 81-1/2 MW Type "RRP" steam Generating Unit having a capacity of 575,000 lbs./steam per hour - no peak. Furnace width 19'-11" and furnace depth 28'-8".

Purchaser supplied necessary field labor to install the CE supplied boiler, auxiliaries and setting materials. Purchaser supplied and installed insulation materials.

Purchasing Department order log book indicates CE issued orders on suppliers as follows:

P.O. No. 1803960 issued to CE Refractories ordering setting materials per Engineering Requisition No. 304-SET (neither purchase order nor requisition are in files).

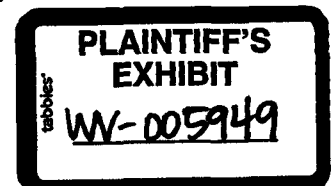


EXHIBIT E

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P.O. No. 1900331 issued to CE Refractories ordering non-asbestos castable refractory per Engineering Requisition No. 305-SET (neither purchase order nor engineering requisition in file).

P.O. No. 1900707 issued to Ce Refractories ordering asbestos packing per Engineering Requisition No. 316-SET (neither purchase order nor engineering requisition in file).

P.O. No. 1901666 (not in file) issued to CE Refractories ordering non-asbestos refractory castables per Engineering Requisition No. 319-SET (not in file).

Contract No. 12867 Hawaiian Electric Co., Kahe Station Unit No. 4, Honolulu, Hawaii

Purchaser: Amfac Inc.
Honolulu, Hawaii

CE furnished (1) 81-1/2 MW Type "RRP" Steam Generating Unit having a capacity of 575,000 lbs./steam per hour - no peak. Furnace width 19'-11" and furnace depth 28'-8". Boiler is an exact duplicate of Kahe #3 furnished on Contract No. 5067, except it is opposite hand.

Purchaser supplied necessary field labor to install the CE supplied boiler, auxiliaries and setting materials. Hawaiian Electric's Boiler Erection Subcontractor "Central Pacific Boiler & Piping Co. Purchaser supplied and installed insulation materials.

Documents in file indicate that Kahe Units #1 & #2 are Babcock & Wilcox boilers.

Manufacturers Data Report indicates Boiler Serial No. and National Board No. 20881 and year built 1970-71 with Certification of Field Assembly Inspection - Post Hydro by the Home Improvement Co. of New York, New York on 2/17/72. Customer's Erection Subcontractor Central Pacific Boiler & Piping Co. certified on 2/17/72 boiler erection was performed in accordance with requirements of ASME Code. CE Erector was W. R. Cole. Unit went into commercial operation on 7/4/72.

CE Proposal No. 37366 1/10/67 is included as part of AMFAC's purchase order for the boiler. Proposal is not in the file.

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Estimate includes under Refractory & Misc. Setting Materials refractory materials 56,000 lbs. and \$5,400 Est. Cost; weather proofing materials 58,000 lbs. \$5,400 Est. Cost (no details). Purchaser supplies insulation materials.

Production Department Work Schedule - Final (Issue #10) 6/15/71 indicates CE issued purchase orders on suppliers as follows:

Attached P.O. No. 1003221 11/3/70 issued to CE Refractories ordering 1,800 lbs. non-asbestos "Shasta Kasta" or Super 32 castable refractory per Engineering Requisition No. 310-SET 10/30/69 (in file). Note handwritten note on purchase order stating that P.O. No. 1901666. 6/25/69 Engineering Requisition No. 319-SET orders the "Shasta Kast" castable refractories on Contract No. 5067. Materials on Contract No. 12867 shipped complete 4/7/71.

P.O. No. 1002067 7/17/70 ^{ATTACHED} issued to Johnson Asbestos Corp., West Springfield, MA ordering 5,400 gallons of Johns Manville "Insulkote ET" for weather proofing walls and ducts per Engineering Requisition No. 311-SET 10/30/69. Materials shipped complete 3/18/71.

P.O. No. 1001953 7/7/70 ^{ATTACHED} issued to Johnson Asbestos Corp., West Springfield, MA ordering 100 lin. ft. JM #4200 asbestos rope (or equal) and other misc. non-asbestos mastic materials. Engineering Requisition No. 312-SET 10/30/69 covers. Materials shipped complete 4/30/71.

P.O. No. 1002148 7/27/70 ^{ATTACHED} issued to H. K. Porter Co., Inc., Charlotte, North Carolina ordering 65 lin. ft. asbestos tubing - H. K. Porter Co. Thermoid Division. Engineering Requisition No. 313-SET 10/30/69 covers.

P.O. No. 1902836 11/7/69 ^{ATTACHED} issued to CE Refractories ordering refractory setting materials including 200 lbs. "Super Stic-Tite" plastic insulation and 80 lbs. Mix "A" packing material. Balance of materials quick set adhesive, super 3000, moldit, pourable insulation, firebrick, mineral fiber blankets are all non-asbestos. Engineering Requisition No. 318-SET 10/30/69 covers. Material shipped complete 4/7/71.

Attached P.O. No. 1403175 10/10/74 issued to Plant Insulation Co. ordering non-asbestos insulation materials for gas recirculation equipment on (4) contracts - Kahe #3 & 4 (Contract Nos. 5067 & 12867) and Waiiau #7 & 8 (Contract Nos. 5863 & 15265). Note asbestos free calcium silicate pipe insulation, insulation block and super stic-tite. ~~Post 1972 order - no asbestos insulation materials supplied by CE.~~

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J. Dickhoff

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Attached CE engineering refractory specifications pages 1 thru 8.
Also attached CE engineering insulation specifications pages 1 thru
32 inclusive, stating that Purchaser supplies and installs
insulation materials.

This concludes our reports on Contract Nos. 5067 and 12867 -
Hawaiian Electric/Kahe Unit Nos. 3 & 4.



M. J. Hornik

MJH:smt
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Attachments

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