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A.P. GREEN SERVICES, INC.

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA  
IN AND FOR THE COUNTY OF SAN FRANCISCO

IN RE COMPLEX ASBESTOS LITIGATION ) No. 828684  
 )  
 ) RESPONSES OF A.P. GREEN  
 ) SERVICES, INC. TO  
 ) PLAINTIFFS' STANDARD  
 ) INTERROGATORIES TO  
 ) DEFENDANTS

COMES NOW, Defendant, A.P. GREEN SERVICES, INC., formerly known as "Bigelow-Liptak Corporation", and hereby submits the following responses to Plaintiffs' Standard Interrogatories to Defendants, propounded pursuant to General Order No. 29, as follows.

PRELIMINARY STATEMENT

The responses set forth herein are given without prejudice to this defendant's right to produce evidence of any subsequently discovered facts, writings or interpretations thereof, or to modify or amend these responses. Unless otherwise specified, the information provided in response to these interrogatories relate

1 to this defendant's business activities and practices generally,  
2 and without respect to any specific jurisdiction. It is unknown  
3 at this time whether this defendant's business activities and  
4 practices varied in any significant manner in the defined  
5 Geographic Area.

6 Given the foregoing qualifications, the information set  
7 forth herein is true and correct to the best of this defendant's  
8 knowledge and information at this time. Given the lengthy passage  
9 of time since this defendant was actively involved in business, it  
10 has been impossible to verify responses to all of these  
11 interrogatories and their subparts. A diligent search has been  
12 made to respond to these interrogatories in an accurate fashion.  
13 Investigation and discovery are continuing.

14  
15 **GENERAL OBJECTIONS**

16 1. Defendant objects to these interrogatories on the  
17 grounds that they are vague and ambiguous, overly broad, unduly  
18 burdensome and oppressive, and call for information which is not  
19 relevant to the subject matter of any specific case nor reasonably  
20 calculated to lead to the discovery of relevant or admissible  
21 evidence.

22 2. Defendant objects to these interrogatories to the  
23 extent that they call for information protected against disclosure  
24 by the attorney-client privilege and/or the attorney work product  
25 doctrine.

26 3. Defendant objects to these interrogatories on the  
27 grounds that they contain words and phrases susceptible of various  
28 and conflicting interpretations. Consequently, responses to many

1 of these interrogatories call for speculation on the part of this  
2 defendant. This defendant will respond to any ambiguous  
3 interrogatory based upon its reasonable interpretation of that  
4 interrogatory.

5 4. Defendant objects to these interrogatories on the  
6 grounds that certain interrogatories, and their subparts, are  
7 duplicative and overlapping of other interrogatories. Hence,  
8 answers responsive to one interrogatory, or its subparts, may also  
9 be responsive to several other interrogatories, making the  
10 categorization of those answers unduly burdensome and oppressive.

11 5. Defendant objects to these interrogatories on the  
12 grounds that the "Geographic Area", as defined herein, is overly  
13 broad, lacks foundation and assumes facts not in evidence. These  
14 interrogatories assume that this defendant did business in the 46  
15 counties of Northern California. These interrogatories also  
16 assume that this defendant's business activities and practices  
17 were identical in each of the 46 counties. These interrogatories  
18 further assume that this defendant caused or contributed to the  
19 alleged exposure of plaintiffs in each of the 46 counties.

20 6. Defendant does not waive its right to raise and  
21 assert any additional objections not already set forth herein as  
22 the litigation proceeds that are otherwise prescribed by the  
23 California Code of Civil Procedure, the California Civil Code and  
24 the California Evidence Code.

25 Subject to, and without waiving the foregoing objections,  
26 all of which are incorporated by reference and applied to every  
27 response herein below, defendant, Defendant responds as follows:  
28

1 **INTERROGATORY NO. 1:**

2 With respect to the individual verifying these answers on  
3 your behalf, state the following:

- 4 (a) Their name;
- 5 (b) Their present business address;
- 6 (c) Their present job title;
- 7 (d) Their date of first employment with you, and the  
8 dates and titles of each job position they have held while they  
9 were employed by you.

10

11 **RESPONSE TO INTERROGATORY NO. 1:**

- 12 (a) Michael B. Cooney.
- 13 (b) Green Blvd., Mexico, Missouri 65265.
- 14 (c) Secretary.
- 15 (d) Michael B. Cooney has been secretary of Bigelow-  
16 Liptak Corporation since approximately 1988.

17

18 **INTERROGATORY NO. 2:**

19 Please state whether or not you are a corporation, and if  
20 so, state:

- 21 (a) Your correct corporate name;
- 22 (b) Your state of incorporation;
- 23 (c) The date of your incorporation;
- 24 (d) The address of your principal place of  
25 business;
- 26 (e) Whether or not you have ever held a certificate of  
27 authority to do business in this state, and if so, the inclusive  
28 dates of any certificate;

1 (f) Whether or not you have a registered agent for the  
2 purpose of accepting service of process in this state, and if so,  
3 their name and present address;

4 (g) If you are wholly owned or the majority interest of  
5 your company is owned by another business entity, state that  
6 entity's name and principal place of business.

7  
8 **RESPONSE TO INTERROGATORY NO. 2:**

9 (a) A.P. Green Services, Inc.

10 (b) Michigan.

11 (c) 1926.

12 (d) Green Blvd., Mexico, Missouri 65265.

13 (e) Yes, from 1967 to October 1, 1989.

14 (f) Not at this time.

15 (g) Defendant is a wholly owned, separately managed  
16 subsidiary corporation of A.P. Green Industries, Inc.

17  
18 **INTERROGATORY NO. 3:**

19 Have you ever been identified, known, or done business  
20 under any other name? If so, please state such name or names and  
21 the time period during which this defendant was so known or  
22 identified.

23  
24 **RESPONSE TO INTERROGATORY NO. 3:**

25 Defendant was originally known as "Bigelow Arch Company"  
26 in 1926. Bigelow Arch Company changed its name to "Bigelow-Liptak  
27 Corporation" in 1927. Bigelow-Liptak Corporation changed its name  
28 to A.P. Green Services, Inc. in 1985.

1 INTERROGATORY NO. 4:

2 State whether you have controlled, purchased, or in any  
3 way acquired any interest in any corporation or business entity  
4 which has mined, manufactured, produced, processed, compounded,  
5 sold, supplied, distributed and/or otherwise placed asbestos or  
6 asbestos-containing products in the stream of commerce, and if so,  
7 state:

8 (a) The name and address of said corporation or business  
9 entity;

10 (b) The dates you controlled, purchased or acquired any  
11 interest; and

12 (c) Set forth the nature of the business as it pertains  
13 to asbestos.

14  
15 RESPONSE TO INTERROGATORY NO. 4:

16 No.

17  
18 INTERROGATORY NO. 5:

19 Since 1930, at any time did you own any shares of stock or  
20 otherwise have an ownership interest in a company that either  
21 mines, produces, or sells raw asbestos fiber? If the answer is in  
22 the affirmative, state the following:

23 (a) The name of such corporation or entity;

24 (b) The date of incorporation or charter;

25 (c) The state or country of incorporation;

26 (d) Each ownership interest owned in each corporation,  
27 setting forth any change in such interest;

28 (e) The date such interest was acquired;

- 1 (f) The date of formation of such corporation or entity;  
2 (g) The names of all shareholders owning more than 5% of  
3 the shares of stock of such corporation;  
4 (h) The date such interest changed or terminated, if  
5 applicable;  
6 (i) The name and location of each asbestos mine so owned;  
7 (j) The grade and type of asbestos mined at each mine.  
8

9 **RESPONSE TO INTERROGATORY NO. 5:**

10 No.

11  
12 **INTERROGATORY NO. 6:**

13 Please state the following:

- 14 (a) The address where the corporate records of this  
15 defendant are currently located; and  
16 (b) The name, job title, and current address of the  
17 custodian for this defendant's corporate records.  
18

19 **RESPONSE TO INTERROGATORY NO. 6:**

20 (a-b) The corporate records of Defendant are located at  
21 Green Blvd., Mexico, Missouri 65265.  
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1 **INTERROGATORY NO. 7:**

2 Please state whether this defendant, between 1930 and  
3 1985, has ever engaged in the following activities with regard to  
4 raw asbestos fiber, and if so, please state the inclusive dates of  
5 such activity:

- 6 (a) Mining;  
7 (b) Milling;  
8 (c) Supply;  
9 (d) Importing;  
10 (e) Processing;  
11 (f) Distribution;  
12 (g) Marketing;  
13 (h) Sale.

14  
15 **RESPONSE TO INTERROGATORY NO. 7:**

16 No.

17  
18 **INTERROGATORY NO. 8:**

19 Please state whether this defendant, between 1930 and  
20 1985, has ever engaged in the following activities with regard to  
21 asbestos-containing products, and if so, please state the  
22 inclusive dates of such activity;

- 23 (a) Supply;  
24 (b) Importing;  
25 (c) Distribution;  
26 (d) Marketing;  
27 (e) Sale;  
28 (f) Labelling;



1 (g) Manufacturing.  
2

3 **RESPONSE TO INTERROGATORY NO. 8:**

4 (a-g) No. Bigelow-Liptak Corporation did not manufacture  
5 any asbestos containing products. In addition, Bigelow-Liptak did  
6 not market asbestos-containing products as an individual  
7 commodity. Bigelow-Liptak was engaged in the design and  
8 installation of high temperature furnace and vessel linings.

9 Bigelow-Liptak may have sold, however, certain types of  
10 lining systems which may have included asbestos-containing  
11 products that were included in the lump sum price of the lining  
12 system. Bigelow-Liptak may have also, on occasion, supplied  
13 asbestos-containing materials to be used for the repair of linings  
14 it had previously installed. It is unclear at this time, however,  
15 whether any such repair materials were ever supplied in  
16 California.

17 Investigation and discovery are continuing. Defendant  
18 hereby reserves the right to rely on any subsequently discovered  
19 information that is responsive to this interrogatory at the time  
20 of trial or other later proceeding.

21  
22 **INTERROGATORY NO. 9:**

23 If your answer to Interrogatory No. 7 regarding "raw  
24 asbestos fiber" is in the affirmative, please state the following:

25 (a) The trade, brand name, and/or generic name of each  
26 such raw asbestos fiber mined, milled, supplied, distributed,  
27 processed, imported, labelled, and/or marketed in any form or  
28 quantity between 1930 and 1985;

1 (b) The date(s) each such raw asbestos fiber was first  
2 placed on the market, including the date(s) each such raw asbestos  
3 fiber was first marketed:

4 (i) on an experimental basis;

5 (ii) on a test basis; or

6 (iii) for sale.

7 (c) The date(s) each such raw asbestos fiber:

8 (i) ceased to be produced; or

9 (ii) was recalled from the market, if ever.

10 (d) A description of the chemical composition of each  
11 such raw asbestos fiber, including the type and/or grade of  
12 asbestos;

13 (e) A description of the physical appearance and nature  
14 of each such raw asbestos fiber, including any color coding,  
15 distinctive marking and/or logo;

16 (f) A detailed description of the intended use of each  
17 such raw asbestos fiber, including any temperature limits for each  
18 such use;

19 (g) Whether such raw asbestos fiber was on the U.S.  
20 Government's "Qualified Products List", and if so, the inclusive  
21 dates it was on such list;

22 (h) Whether any of this defendant's "raw asbestos fibers"  
23 have, at any time, been sold to any companies (including power  
24 companies or utilities), shipyards, distributors, refineries,  
25 suppliers and/or manufacturers in the defined geographic area. If  
26 so, please state:

27 (i) The names of each such company,  
28 shipyard, distributor, supplier, manufacturer or refinery;

1 (ii) The inclusive dates of each such sale,  
2 and the amount (volume) and the trade or brand name of each such  
3 raw asbestos fiber sold;

4 (iii) Whether you have any records  
5 indicating any such sale and, if so, the name, address and job  
6 classification of each individual who currently has possession of  
7 such records.

8 (i) Describe the types of records sufficiently to  
9 identify them for discovery purposes which set forth any of the  
10 foregoing information and the custodian thereof (giving name and  
11 address) of each such records.

12  
13 **RESPONSE TO INTERROGATORY NO. 9:**

14 Not applicable. See response to Interrogatory No. 7,  
15 above.

16  
17 **INTERROGATORY NO. 10:**

18 If your answer to Interrogatory No. 8 regarding "asbestos-  
19 containing products" is in the affirmative, please state the  
20 following:

21 (a) The trade, brand name, and/or generic name of each  
22 such asbestos-containing product sold, supplied, distributed,  
23 processed, imported, labelled, manufactured, and/or marketed in  
24 any form or quantity between 1930 and 1985;

25 (b) The date(s) each such asbestos-containing product was  
26 first placed on the market, including the date(s) each such  
27 asbestos-containing product was first marketed:

28 (i) on an experimental basis;

1 (ii) on a test basis; or

2 (iii) for sale.

3 (c) The date(s) each such asbestos-containing product:

4 (i) ceased to be produced; or

5 (ii) was recalled from the market, if ever.

6 (d) A description of the chemical composition of each  
7 such asbestos-containing product, including the type and/or grade  
8 of asbestos and/or asbestos fiber contained in each such product  
9 and the quantitative percentage of asbestos or asbestos fiber in  
10 each such product;

11 (e) A description of the physical appearance and nature  
12 of each such asbestos-containing product, including any color  
13 coding, distinctive marking and/or logo;

14 (f) A detailed description of the intended use of each  
15 such asbestos-containing product, including any temperature limits  
16 for each such use;

17 (g) Whether any such asbestos-containing product was on  
18 the U.S. Government's "Qualified Products List", and if so, the  
19 inclusive dates it was on such list;

20 (h) The name and address of the supplier's of the raw  
21 asbestos fiber used in each such product and the time period of  
22 such supply;

23 (i) Whether any of this defendant's "asbestos-containing  
24 products" have, at any time, been sold to any companies (including  
25 power companies or utilities), shipyards, distributors,  
26 refineries, suppliers and/or manufacturers in the defined  
27 geographic area. If so, please state:

28 (i) The names of each such company,

1 shipyard, distributor, supplier, manufacturer or refinery;

2 (ii) The inclusive dates of each such sale,  
3 and the amount (volume) and the trade or brand name of each such  
4 asbestos-containing product sold;

5 (iii) Whether you have any records  
6 indicating any such sale and, if so, the name, address and job  
7 classification of each individual who currently has possession of  
8 such records.

9 (j) Describe the types of records sufficiently to  
10 identify them for discovery purposes which set forth any of the  
11 foregoing information and the custodian thereof (giving name and  
12 address) of each such records.

13  
14 **RESPONSE TO INTERROGATORY NO. 10:**

15 (a-c) Bigelow-Liptak Corporation has never  
16 manufactured asbestos-containing products. Bigelow-Liptak may  
17 have included asbestos-containing materials in the lump sum price  
18 of some furnace and vessel linings designed by it, and may have  
19 supplied materials for the repair of linings it had previously  
20 sold. See response to Interrogatory No. 8, above.

21 As for asbestos-containing products that may have been  
22 included in the lump sum price of furnace and vessel linings  
23 designed by Bigelow-Liptak, the use of such asbestos-containing  
24 materials began in 1949. Those asbestos-containing products that  
25 were included in the linings sold by Bigelow-Liptak were generally  
26 supplied by Eagle-Picher Industries, Inc., and A.P. Green  
27 Refractories Co., now known as A.P. Green Industries, Inc., unless  
28 a different manufacturer's products were specified by the

1 customer.

2 It is unknown at this time which asbestos-containing  
3 products manufactured by A.P. Green Refractories, if any, were  
4 used by Bigelow-Liptak in California. Bigelow-Liptak understands  
5 that none of the A.P. Green Refractories products contained  
6 asbestos after 1972. Bigelow-Liptak defers to the manufacturer  
7 for that information responsive to this interrogatory. Bigelow-  
8 Liptak also refers Plaintiffs to the responses of A.P. Green  
9 Industries to these interrogatories previously prepared and served  
10 in this litigation.

11 The Eagle-Picher products are identified below. It is  
12 believed that none of these products contained asbestos after  
13 1971. All of these were manufactured by Eagle-Picher and then  
14 labeled with the Bigelow-Liptak name by Eagle-Picher. It is  
15 unknown at this time which of these products, if any, were used in  
16 California.

17

18 BIGELOW-LIPTAK PRODUCT NAME	EAGLE-PICHER PRODUCT NAME	CONTAINER
19 C-18	Super 66 Insulating Cement	Bags
20 C-10	48 Finishing Cement	Bags
21 FC-11	One Cote	Bags
22 WP	Protective Coating - Spray - Mastic	Drums
23 RC-23	Hi - Temp Cement	Bags
24 BC	Plastic - Type Coating, Stalastic	Drums

25

26 (d) Unknown. Bigelow-Liptak Corporation did not  
27 manufacture these products. Defendant defers to the  
28 manufacturers.

1 (e) The products were, for the most part, a dry-cement  
2 material.

3 (f) Bigelow-Liptak Corporation did not manufacture these  
4 products. Defendant defers to the manufacturers.

5 (g-h) Unknown. Bigelow-Liptak Corporation did not  
6 manufacture these products. Defendant defers to the  
7 manufacturers.

8 (i-j) Defendant objects to these interrogatory sub-  
9 parts on the grounds that they are vague, ambiguous, overly broad,  
10 unduly burdensome, harassing and oppressive. Defendant also  
11 objects to the use of the description: "Your asbestos-containing  
12 products." As previously noted, Bigelow-Liptak did not  
13 manufacture or design any asbestos containing products or market  
14 any such products as an individual commodity. Without waiving the  
15 foregoing objections, the information requested is unknown at this  
16 time.

17 Investigation and discovery are continuing. Defendant  
18 hereby reserves the right to rely on any subsequently discovered  
19 information that is responsive to this interrogatory and its sub-  
20 parts at the time of trial or other later proceeding.

21  
22 **INTERROGATORY NO. 11:**

23 If any of the distributors identified in your answer to  
24 Interrogatory Nos. 9 and 10 above was an exclusive  
25 distributorship, please so state and identify the relevant time  
26 period.

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**RESPONSE TO INTERROGATORY NO. 11:**

Not applicable.

**INTERROGATORY NO. 12:**

If this defendant entered into any agreements for the re-branding of any asbestos-containing product(s) and/or material(s) mined, imported, manufactured, sold, distributed, and/or supplied by this defendant for resale or distribution by another company, describe each agreement's terms and the parties to said agreement, the duration of the agreement, and name of each product(s) and/or material(s) covered by each such agreement.

**RESPONSE TO INTERROGATORY NO. 12:**

Not applicable.

**INTERROGATORY NO. 13:**

If this defendant entered into any agreements for the re-branding of asbestos-containing products and/or materials mined, imported, manufactured, sold, distributed, and/or supplied by another company for resale or distribution by your company, describe each of the agreements and the parties to said agreement, the terms, the duration, and the names of each product(s) and/or material(s) covered by each such agreement.

**RESPONSE TO INTERROGATORY NO. 13:**

Defendant objects to this interrogatory on the grounds that it is vague and ambiguous with respect to the term "re-



1 branding". Without waiving the foregoing objections, a private  
2 labeling agreement was entered into between Bigelow-Liptak  
3 Corporation and Eagle-Picher in 1949. Eagle-Picher agreed to  
4 manufacture and sell to Bigelow-Liptak various products with a  
5 Bigelow-Liptak label. Those products that contained asbestos are  
6 set forth in response to Interrogatory No. 10, above.  
7

8 **INTERROGATORY NO. 14:**

9 State whether any asbestos used, processed, mined,  
10 manufactured, imported, supplied, distributed, labelled, and/or  
11 sold by this defendant was purchased from or acquired from the  
12 General Service Administrative or any branch or agency of the  
13 United States Government during the period 1930 to 1985. If your  
14 answer is in the affirmative, state:

15 (a) The name and address of the agency which supplied the  
16 asbestos;

17 (b) The grade and types of asbestos purchased or  
18 acquired;

19 (c) The quantities of each type of asbestos purchased or  
20 acquired annually during the period 1930 to 1985;

21 (d) The means of packaging;

22 (e) The health warnings, if any, which accompanied each  
23 shipment of asbestos, and indicate when said warnings were first  
24 made part of the shipments.  
25

26 **RESPONSE TO INTERROGATORY NO. 14:**

27 Not applicable.  
28

1 **INTERROGATORY NO. 15:**

2 As to each such asbestos-containing product listed in  
3 defendant's preceding answers to interrogatories, did defendant  
4 put on such products or their containers any warning of their  
5 hazards to health by virtue of the asbestos content of such  
6 products? If so, state for each such warning:

7 (a) Each such warning with particularity, with regard to  
8 size, color, and location; whether the warning was contained on  
9 the material or on the container; whether the warning was printed,  
10 stamped, and/or placed on a tag; and nature and wording or other  
11 content. State whether you have any photographs thereof;

12 (b) The inclusive date on which you began using each such  
13 warning on each of your asbestos-containing products; and

14 (c) All changes you made in such warnings and the dates  
15 of such changes.

16  
17 **RESPONSE TO INTERROGATORY NO. 15:**

18 (a-c) Bigelow-Liptak Corporation did not manufacture or  
19 design any asbestos-containing products, and did not market any  
20 such products as individual commodities. As such, Bigelow-Liptak  
21 did not devise any warnings. Bigelow-Liptak relied upon the  
22 warnings supplied by the manufacturers.

23 Eagle-Picher products contained warnings which were placed  
24 on the containers described in response to Interrogatory No. 10,  
25 above, beginning in 1964. Eagle-Picher placed the following  
26 caution on the containers:

27 "CAUTION. This product contains  
28 asbestos fiber. Inhalation of asbestos  
in excessive quantities over long

1 periods of time may be harmful. If dust  
2 is created when this product is handled,  
3 avoid breathing the dust. If adequate  
4 ventilation control is not possible,  
5 wear respirators approved by the U.S.  
6 Bureau of Mines for Pneumoconiosis  
7 producing dust".

8  
9 **INTERROGATORY NO. 16:**

10 As to any of the bags of raw asbestos fiber referred to in  
11 defendant's preceding answers to interrogatories, did defendant  
12 put on such bags any warning of the hazards to health by virtue of  
13 the asbestos contained therein? If so, state for each such  
14 warning:

15 (a) Each such warning with particularity, with regard to  
16 size, color, location, wording or other content; whether the  
17 warning was contained on the material or on the container; whether  
18 the warning was printed, stamped, and/or placed on a tag attached  
19 to the material or container;

20 (b) The inclusive dates each such warning was issued on  
21 your bags of raw asbestos fiber;

22 (c) All changes you made in such warnings, the dates of  
23 such changes, and the inclusive dates of such changes; and

24 (d) The name, address and job title of each person who  
25 presently has possession of samples or documents relating to the  
26 above warnings.

27 **RESPONSE TO INTERROGATORY NO. 16:**

28 Not applicable.

1  
2 **INTERROGATORY NO. 17:**

3 With respect to each of your asbestos-containing products,  
4 state whether this defendant's name, a trademark, logos, color  
5 coding, or other identifying markings ever appeared on the actual  
6 product itself. If so, identify each such product, state when the  
7 practice to place such identifying markings upon the product was  
8 begun and when it ended, if applicable, and describe in detail the  
9 pertinent marking(s) and the purpose, if any, of such markings.  
10

11 **RESPONSE TO INTERROGATORY NO. 17:**

12 Defendant objects to the use of the description: "Your  
13 asbestos containing products." As previously noted, Bigelow-  
14 Liptak did not manufacture or design any asbestos containing  
15 products or market any such products as an individual commodity.  
16 Without waiving the foregoing objection, defendant responds as  
17 follows. Not applicable. See response to Interrogatory No. 8,  
18 above. See also response to Interrogatory No. 10, above.  
19

20 **INTERROGATORY NO. 18:**

21 Identify all present or former executives, officers, or  
22 other supervisory officials of defendant whose depositions have  
23 been taken by plaintiffs, other than those herein, in cases  
24 involving workers or their heirs who are suing this defendant or  
25 who have sued this defendant for illnesses or injuries allegedly  
26 caused, in whole or in part, by exposure to asbestos dust  
27 allegedly created by defendant's asbestos-containing products  
28 and/or raw asbestos fibers. Identify the name of the case, the

1 court of filing, the court docket number, and the date of the  
2 deposition.

3  
4 **RESPONSE TO INTERROGATORY NO. 18:**

5 Defendant objects to this interrogatory. Bigelow-Liptak  
6 Corporation did not manufacture or design asbestos-containing  
7 products, and did not handle raw asbestos fiber. Defendant also  
8 objects to this interrogatory on the grounds that it is vague,  
9 ambiguous and overly broad. The term "supervisory officials" has  
10 not been defined in these interrogatories. This interrogatory is  
11 not limited to the defined "Geographic Area." To that extent,  
12 this interrogatory calls for information that is irrelevant and  
13 not reasonably calculated to lead to the discovery of admissible  
14 evidence.

15 Without waiving the foregoing objections, Defendant  
16 identifies the following deposition(s):

17 1. Fred Metz, Illinois (1985). (Deposition transcript  
18 never transcribed). (John Todd v. Johns Mansville Sales  
19 Corporation, et al., Cause No. 82-C-0423, in the United States  
District Court for the Northern District of Illinois, Eastern  
Division).

20 2. Robt. W. Jones, North Dakota (October 1, 1992)  
21 (Charles Anderson, et al. v. AcandS, Inc., et al., In District  
22 Court, South Central Judicial Division, County of Burleigh, North  
Dakota; Cause No. Filed Generally In Asbestos Litigation);

23 3. Robt. W. Jones, West Virginia (August 6, 1993) (In  
24 Re: Asbestos; Civil Action No. 92-C-8888, In The Circuit Court of  
Kanawha County, West Virginia).

25  
26 **INTERROGATORY NO. 19:**

27 Between the years 1930 and 1985, did this defendant  
28 purchase or otherwise acquire any asbestos-containing product line

1 from another company? If so, please state for each such purchase:

2 (a) Date of contract of sale;

3 (b) Terms of purchase and sale agreement, or if you will  
4 do so without a motion to produce, attach a copy of said  
5 agreement(s) to your answers;

6 (c) Trade, brand, and/or generic name of each such  
7 product line so acquired;

8 (d) Name of company from whom you purchased each such  
9 asbestos-containing product line; and

10 (e) Location of any manufacturing facilities so acquired,  
11 and the type of asbestos products manufactured therein.

12  
13 **RESPONSE TO INTERROGATORY NO. 19:**

14 No.

15  
16 **INTERROGATORY NO. 20:**

17 Identify all brochures, pamphlets, catalogs or other  
18 advertising relating to asbestos-containing products and/or raw  
19 asbestos fibers which this defendant manufactured, sold,  
20 distributed or supplied from the year 1930 to 1985. For each such  
21 document please state:

22 (a) A description of the document;

23 (b) The year it was printed;

24 (c) The period of time in which it was used;

25 (d) The purpose of such document;

26 (e) Whether the documents or copies of said document  
27 presently exist;

28 (f) If said documents or copies still exist, where they

1 are located; and

2 (g) The name, job title, and current address of the  
3 custodian of such documents.  
4

5 **RESPONSE TO INTERROGATORY NO. 20:**

6 Defendant objects to this interrogatory on the grounds  
7 that it did not manufacture asbestos-containing products and did  
8 not market any such products as an individual commodity.

9 Defendant defers to the product manufacturers. See response to  
10 Interrogatory No. 10, above.  
11

12 **INTERROGATORY NO. 21:**

13 Were any of the raw asbestos fibers identified in  
14 Interrogatory No. 9 sold, shipped or distributed to the General  
15 Services Administration (GSA)? If so, specify the type of raw  
16 asbestos fiber and state the period of time.  
17

18 **RESPONSE TO INTERROGATORY NO. 21:**

19 Not applicable.  
20

21 **INTERROGATORY NO. 22:**

22 Were any of the asbestos-containing products identified in  
23 Interrogatory No. 10 sold, shipped or distributed to General  
24 Services Administration (GSA)? If so, specify the name of the  
25 asbestos-containing products and state the period of time.  
26

27 **RESPONSE TO INTERROGATORY NO. 22:**

28 Defendant objects to this interrogatory on the grounds

1 that it did not manufacture any asbestos-containing products and  
2 did not market any such products as an individual commodity. See  
3 response to Interrogatory No. 10, above. Defendant also objects  
4 to this interrogatory on the grounds that it is overbroad and  
5 unduly burdensome.

6 Without waiving the foregoing objections, defendant lacks  
7 sufficient knowledge and information to answer this interrogatory.  
8 Investigation and discovery are continuing. Defendant hereby  
9 reserves the right to rely on any subsequently discovered  
10 information that is responsive to this interrogatory at the time  
11 of trial or other later proceeding.

12  
13 **INTERROGATORY NO. 23:**

14 Please state if you formed within your corporate structure  
15 an entity known as a "contract unit".

16  
17 **RESPONSE TO INTERROGATORY NO. 23:**

18 Yes.

19  
20 **INTERROGATORY NO. 24:**

21 Please state whether or not any of your "contract units"  
22 were employed in the installation and/or removal of raw asbestos  
23 fiber and/or asbestos-containing products at any time in the  
24 defined geographic area for the years 1930 to 1985. If so, please  
25 state:

26 (a) The inclusive periods of time the contract units were  
27 working in the defined geographic area;

28 (b) The business addresses and names of the contract



1 units;

2 (c) Any records showing the locations of the jobsites  
3 where the contract units worked, and if so, describe them  
4 sufficiently to identify them for discovery purposes, and their  
5 present custodian;

6 (d) Did your contract units work in any shipyards,  
7 refineries, power plants, utility companies, breweries, or other  
8 jobsites in the defined geographic area? If so, state the name of  
9 those jobsites and the dates the contract units worked at those  
10 jobsites;

11 (e) For each jobsite listed above, state the type and  
12 nature of the work that was done.

13  
14 **RESPONSE TO INTERROGATORY NO. 24:**

15 (a-b) Bigelow-Liptak Corporation had a division known as  
16 "A.P. Green Services" which installed lining systems designed by  
17 Bigelow-Liptak. These lining systems may have utilized asbestos-  
18 containing products. This division existed from approximately  
19 1960 through 1987.

20 (c-e) Defendant objects to these interrogatory subparts on  
21 the grounds that they are vague, ambiguous, overly broad, unduly  
22 burdensome, harassing and oppressive. Without waiving the  
23 foregoing objections, the information requested is unknown at this  
24 time. Investigation and discovery are continuing. Defendant  
25 hereby reserves the right to rely on any subsequently discovered  
26 information that is responsive to these interrogatory subparts at  
27 the time of trial or other later proceeding.  
28

1 **INTERROGATORY NO. 25:**

2 From 1930 to present, did you have insurance against  
3 liability for the design, manufacture, distribution and sale of  
4 asbestos-containing products?  
5

6 **RESPONSE TO INTERROGATORY NO. 25:**

7 Defendant objects to this interrogatory on the grounds  
8 that it is vague, ambiguous, overly broad and unduly burdensome.  
9 Defendant also objects to this interrogatory on the grounds that  
10 it calls for a legal conclusion concerning insurance coverage  
11 matters. Without waiving the foregoing objections, defendant has  
12 liability insurance coverage.  
13

14 **INTERROGATORY NO. 26:**

15 If your answer to the preceding interrogatory is in the  
16 affirmative, please state:

- 17 (a) Name and address of each insurance company;  
18 (b) Date and number of each policy:  
19 (c) Limits of each policy, including the deductible; and  
20 (d) Name, address, and company position of person who has  
21 custody of each policy.  
22

23 **RESPONSE TO INTERROGATORY NO. 26:**

24 Defendant objects to this interrogatory on the grounds  
25 that it is vague, ambiguous, overly broad and unduly burdensome.  
26 Defendant also objects to this interrogatory on the grounds that  
27 it calls for a legal conclusion concerning insurance coverage  
28 matters.

1 Without waiving the foregoing objections, the defense of  
2 this defendant in this litigation is currently being provided by  
3 various insurers. The lead insurer is the Great American  
4 Insurance Company, 580 Walnut Street, Cincinnati, Ohio 45202-3180.  
5

6  
7 DATED: 5/9/95  
8

LYNCH, LOOFBOURROW, GILARDI & GRUMMER

9 By: Robert V. Betette  
10 ROBERT V. BETETTE, ESQ.  
11 Attorneys for Defendant  
12 A.P. GREEN SERVICES, INC.  
13

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PROOF OF SERVICE BY MAIL

I, Trish Caunday, declare:

I am over the age of eighteen (18) years, residing or employed in the County of San Francisco, and not a party to the within action; my business address is Lynch, Loofbourrow, Helmenstine, Gilardi & Grummer, 50 Francisco Street, Suite 400, San Francisco, California 94133.

On May 9, 1995, I served the within **RESPONSES OF A.P. GREEN SERVICES, INC. TO PLAINTIFFS' STANDARD INTERROGATORIES TO DEFENDANTS** by placing it in an envelope addressed as set forth below, and placing it, following ordinary business practices, for deposit with the United States Postal Service at my place of business as set forth above. I am readily familiar with this office's practice for collection and processing of correspondence for mailing within the United States Postal Service. In the ordinary course of business, such correspondence would be deposited with the United States Postal Service that same day.

PLEASE SEE ATTACHED LIST

I declare under penalty of perjury that the foregoing is true and correct.

Executed on May 9, 1995, at San Francisco, California.

By Trish Caunday  
TRISH CAUNDAY

1 Berry & Berry  
2 Station D  
3 P.O. Box 70250  
Oakland, CA 94612-0250  
4 Brayton, Gisvold & Harley  
5 999 Grant Avenue  
P.O. Box 2109  
Novato, CA 94948  
6 Wartnick, Shaber, Harowitz, et al.  
7 101 California Street  
26th Flr.  
8 San Francisco, CA 94111  
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MEMORANDUM

*File in  
BINDER  
WAS ROOM  
IN AP GREEN  
BINDER.*

**TO: PID FILE**  
**FROM: GC**  
**DATE: July 8, 1996**  
**RE: AP GREEN SERVICES/AP GREEN REFRACTORIES**

=====

Per phone conversation with Michael O'Bresley [atty for AP Green Services... take w/grain of salt].

Bigelow-Liptak was incorp'ed in 1926 in Michigan. AP Green Firebrick bought it out ~ 1927. AP Green Firebrick later became known as AP Green Refractories which later became AP Green Industries.

Bigelow-Liptak was a wholly owned subsidiary of AP Green Refractories. Bigelow-Liptak had some refractory lining work. AP Green Refractories made AP Green firebrick and other asbestos-containing products. Bigelow-Liptak did have some asbestos-containing products but they were labeled as such.

~ 1980 Bigelow-Liptak changed its name to AP Green Services. ~ 1985-90 dissolved.

AP Green Services posture is that when client remembers AP Green products it is AP Green Refractories [they would have to name Bigelow-Liptak products for them to be liable]. Further, they argue that they are not liable for the products of their parent corp. AP Green Refractories]

# United States Patent Office

3,563,774

Patented Feb. 16, 1971

1

2

3,563,774

## GUNNING REFRACTORY

Glen W. Charles, Mexico, Mo., assignor, by mesne assignments, to A. F. Green Refractories Co., Mexico, Mo., a corporation of Delaware  
No Drawing. Filed Nov. 2, 1967, Ser. No. 680,032  
Int. Cl. C04b 35/44

U.S. Cl. 105-64

5 Claims

### ABSTRACT OF THE DISCLOSURE

A gunning refractory of the hydraulic setting agent type having low rebound loss and of a composition of 60% to 90% by weight of acid and/or neutral refractory aggregate filler, from 10% to 40% calcium aluminate cement, from 0.1% to 5% plaster of Paris, and from 0.01% to 5% short fiber asbestos.

### BACKGROUND OF THE INVENTION

#### (1) Field of the invention

The present invention relates to improved plasticity and workability of refractory materials and particularly relates to improved gunnability of refractory castables, ramming mixes, and gunning mixes.

#### (2) Description of the prior art

A gunning refractory is one which is suitable for emplacement by pneumatic means. A common method of doing this is to transport the refractory mixture from a storage vessel by air to a nozzle where it is mixed with water automatically and then directed against a wall or enclosure which is to be coated with the refractory. One of the difficulties encountered in this procedure is that of getting the refractory mixture to stick to the wall. A poor quality refractory mixture will allow a high percentage of the mixture to bounce off the wall and be lost. This lost material is referred to as "rebounds" or rebound loss. Such a mixture also may lose preferentially certain portions of the mixture, resulting in emplacement of a refractory widely different in composition from the starting material. Rebound loss in refractories containing pure calcium aluminate cement is an object of concern in the art and it is to this problem which the present invention is directed as a solution.

### SUMMARY OF THE INVENTION

The present invention comprises an improved refractory product including about 60% to about 90% by weight of an inert aggregate filler, from about 10% to about 40% hydraulic setting agent, from about 0.1% to about 5% plaster of Paris, and about 0.01% and about 5% short fiber asbestos.

### DETAILED DESCRIPTION OF THE INVENTION

Briefly, according to one embodiment of this invention, an improved refractory is provided having good strength and low rebound loss when gunned. It is comprised of a selected acid refractory such as fireclay (an inert filler material), a calcium aluminate binder, with additions of plaster of Paris and short fiber asbestos. Compositions manufactured according to the methods of this invention are comprised of 60% to 90% by weight of a size graded acid and/or neutral refractory aggregate filler, and from 10% to 40% calcium aluminate cement, to which is added from 0.1% to 5% plaster of Paris and from 0.01% to 5% short fiber asbestos. Best results are obtained when the plaster of Paris addition is between 0.1% to 2.0% and the short fiber asbestos addition is between 0.01% and 0.5% by weight, of the dry solids in the mixture. Upwards

of 5% plaster of Paris and short fiber asbestos can be used, but these higher amounts are not suggested, for several reasons. About 5% plaster of Paris causes the mix to set up too quickly and also causes a decrease in refractoriness and strength when used with calcium aluminate cement binders. A short fiber asbestos addition above 5% increases the water required for gunning and decreases the density and strength. The asbestos is of about 1/4 to about 3/4 inch in length.

For this invention, suitable chemically inert refractory filler materials of commerce are, for example, as follows: chrome ore, calcined alumina, calcined South American bauxite, calcined diaspor, burley diaspor, kyanite, silica, ganister, quartzite, and other fireclay, silica and alumina refractory materials, alumina ores and the like, calcium silicates, zircon, etc. Lightweight aggregates are also usable for this purpose. They include such as haydite, vermiculite, expanded fireclay, perlite, etc.

The inert filler material is size graded to less than 3 mesh and is about 45% to about 60% greater than 20 mesh and about 40% to about 55% -20 mesh. Preferably, the filler contains 30% to 40% of 4 to 10 mesh material, 15% to 20% of 10 to 20 mesh material, and 17% to 22% of 20 to 48 mesh material, with the remainder finer than 48 mesh.

The calcium aluminate may be any suitable calcium aluminate cement, such as the cements sold in commerce and referred to as CA-25 cement, Rolandshutte cement, Lumnite cement, etc. Exemplary chemical analyses of a usable calcium aluminate cement is as follows: (by weight on the basis of an oxide analysis)

TABLE I

	Percent
Silica (SiO <sub>2</sub> )	0.1
Alumina (Al <sub>2</sub> O <sub>3</sub> )	79.0
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.3
Lime (CaC)	18.0
Magnesia (MgO)	0.4
Alkalies (Na <sub>2</sub> O)	0.5
LOI (1100° C.)	1.5

The calcium aluminate cement is a minimum of 90% through 200 mesh.

Table II shows the results of tests to establish beneficial gunning properties of a preferred composition having plaster of Paris and short fiber asbestos additions according to the invention.

TABLE II

Mix	A	B
Inert filler material	62.5	62.5
Calcium aluminate cement	17.5	17.5
Plaster of Paris (added extra)	0	0.5
Short fiber asbestos (added extra)	0	0.1
Water added during gunning, percent	6.8	6.8
Rebound loss,* percent	33.40	10.15

\*The rebound figure is expressed as a percentage of the material that did not bounce off.

The inert filler material is a mixture of calcined flint, calcined bauxite and raw kyanite and is 72.5% 4 mesh and finer and 10% 35 mesh and finer.

Mix B, having plaster of Paris and short fiber asbestos added, had excellent plasticity and workability in gunning, and the material can be built to a thickness of plus 18 inches without slumping. Mix A, the standard, when gunned to 2 1/4 inch thickness started to slump because of poor plasticity and workability.

This invention is intended to cover all changes and modifications of the example of the invention herein chosen for purposes of the disclosure which do not depart from the spirit and scope of the invention.

What I claim is:

1. A refractory composition comprising

8,568,774

3  
(a) from about 60% to about 90% refractory aggregate, selected from the group consisting of acid refractories, neutral refractories and mixtures thereof,  
(b) from about 10% to about 40% hydraulic setting agent,

(c) from about 0.1% to about 3% plaster of Paris,  
(d) from about 0.01% to about 5% short fiber asbestos of from about 1/4 to about 3/4 inch in length.

2. The composition of claim 1 wherein the hydraulic setting agent is calcium aluminate cement.

3. The composition of claim 1 wherein the composition includes about 0.1% to about 2% plaster of Paris and from about 0.01% to about 0.5% short fiber asbestos.

4. The composition of claim 1 wherein the hydraulic setting agent is a minimum 90% through 200 mesh and the aggregate is finer than 3 mesh, and is about 45% to about 60% greater than 20 mesh and is about 40% to about 55% -20 mesh.

4  
5. The composition of claim 1 wherein the aggregate is about 30% to about 40% of 4 to 10 mesh, about 15% to about 20% of 10 to 20 mesh, about 17% to about 22% of 20 to 48 mesh and the remainder finer than 48 mesh.

References Cited

UNITED STATES PATENTS

3,201,501	8/1965	Cook et al.	264-30
2,099,176	11/1937	Scripture	106-1
2,339,163	1/1944	Friedlaender et al.	106-1
3,360,594	12/1967	Cris	106-6

JAMES E. FOER, Primary Examiner

U.S. Cl. X.R.

106-57, 65, 66, 69



# FAX COVER SHEET

**RAPID PATENT**  
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DATE: 04, 02 1996

PAGES TO BE SENT (INCLUDING THIS COVER PAGE): 3

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ATTN: KAREN MARTELLA

FAX NUMBER 415-986-5896

SENT FROM: RJP

NOTE: 3563774

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(310) 436-4886

JEROME H. GOLDBERG, OF COUNSEL  
\*DENOTES PROFESSIONAL CORPORATION

**FACSIMILE TRANSMITTAL**

DATE: JUNE 27, 1995

TIME: 4:45 p-

RE: PRODUCT I.D. - A.P. GREEN

TO: ALAN TORRES  
WARTNICK, CHABER, HAROWITZ, SMITH & TIGERMAN

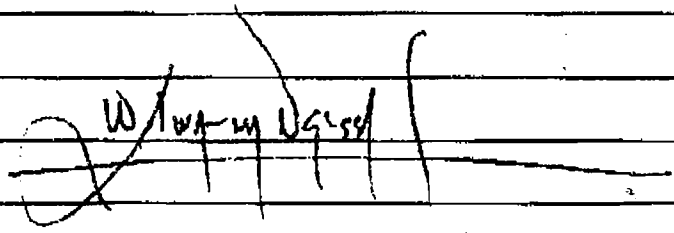
FAX: (415) 986 - 5896

FROM: W. KWAM NGISSAH

FAX NO.: (213) 623-7755

NUMBER OF PAGES (Including this page): 05

COMMENTS: ENCLOSED PLEASE FIND THE PRODUCT I.D. WHICH YOU  
REQUESTED FOR A.P. GREEN. I HOPE THIS IS OF SOME HELP TO  
YOU. IF YOU HAVE ANY QUESTIONS, PLEASE FEEL FREE TO CALL.



EMPLOYER: J.T. THORPE/OCF/METALCLAD

JOBSITE: HUNTINGTON BEACH POWERPLANT

- see pg. 5-6054

TYPE:

POWERPLANT

LOCATION: HUNTINGTON BEACH

DATE OF JOB: 1961-1990

DEPONENT: NEALES, WILLIAM K., JR.

TRADE: INSULATOR

LOCAL: 5

SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK, COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P GREEN

JOBSITE: UNION OIL REFINERY

- see pg. 3-6054

TYPE: OIL REFINERY

LOCATION: WILMINGTON

DATE OF JOB: 1953-1954, 1961-1990

DEPONENT: NEALES, WILLIAM K., JR.

TRADE: INSULATOR

LOCAL: 5

SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK, COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P GREEN

COWORKERS: RED PETTIES, MANVILLE PETTIES, GEORGE SCHWEITZER, ART MILLER, BOB FOOTE, TEX ROGER, SAM MCCLUSKEY, TOM SCOTT, CHUCK BURGESS, HAROLD DAVIS, PAT REEBS

JOBSITE: MIRA MAR NAVAL AIR BASE

TYPE: NAVAL AIR BASE

LOCATION: MIRAMAR

DATE OF JOB: 1953-1954

DEPONENT: NEALES, WILLIAM K., JR.

TRADE: INSULATOR

LOCAL: 5

SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK, COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P GREEN

COWORKERS: RED PETTIES, MANVILLE PETTIES, GEORGE SCHWEITZER, ART MILLER, BOB FOOTE, TEX ROGER, SAM MCCLUSKEY, TOM SCOTT, CHUCK BURGESS, HAROLD DAVIS, PAT REEBS

JOBSITE: MOBIL OIL REFINERY  
REFINERY  
LOCATION: TORRANCE  
DATE OF JOB: 1959, 1961-1967

TYPE: OIL

DEPONENT: NEALES, WILLIAM K., JR.  
TRADE: INSULATOR

LOCAL: 5  
SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK,  
COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P  
GREEN

JOBSITE: OLANCHA CHEMICAL PLANT  
PLANT  
LOCATION: LONE PINE  
DATE OF JOB: 1959

TYPE: CHEMICAL

DEPONENT: NEALES, WILLIAM K., JR.  
TRADE: INSULATOR

LOCAL: 5  
SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK,  
COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P  
GREEN

COWORKERS: EDDY BICKWORTH, FRENCHIE HEBERT, JOHN GARDNER, LARRY  
GIBSON, E. BYCOFT, JERRY ROBERTS, SONNY WOOD

JOBSITE: KAISER STEEL MILL  
MILL  
LOCATION: FONTANA  
DATE OF JOB: 1954, 1961-1990

— sec pg. 4-6054  
+  
pg. 6

TYPE: STEEL

DEPONENT: NEALES, WILLIAM K., JR.  
TRADE: INSULATOR

LOCAL: 5  
SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK,  
COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P  
GREEN

COWORKERS: EDDY BICKWORTH, FRENCHIE HEBERT, JOHN GARDNER, LARRY  
GIBSON, E. BYCOFT, JERRY ROBERTS, SONNY WOOD

JOBSITE: TEXACO OIL REFINERY  
REFINERY  
LOCATION: WILMINGTON  
DATE OF JOB: 1961-1967

TYPE: OIL

DEPONENT: NEALES, WILLIAM K., JR.  
TRADE: INSULATOR

LOCAL: 5  
SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK,  
COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P  
GREEN

JOBSITE: STANDARD OIL REFINERY  
REFINERY  
LOCATION: EL SEGUNDO  
DATE OF JOB: 1957-1959, 1961-1967

TYPE: OIL

DEPONENT: NEALES, WILLIAM K., JR.  
TRADE: INSULATOR

LOCAL: 5  
SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK,  
COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P  
GREEN

COWORKERS: RED PETTIES, MANVILLE PETTIES, GEORGE SCHWEITZER, ART  
MILLER, BOB FOOTE, TEX ROGER, SAM MCCLUSKEY, TOM SCOTT, CHUCK  
BURGESS, HAROLD DAVIS, PAT REEBS

JOBSITE: COLLIER CHEMICAL REFINERY  
REFINERY  
LOCATION: BREA  
DATE OF JOB: 1966

TYPE: CHEMICAL

DEPONENT: NEALES, WILLIAM K., JR.  
TRADE: INSULATOR

LOCAL: 5  
SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK,  
COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P  
GREEN

JOBSITE: GULF OIL REFINERY  
REFINERY  
LOCATION: SANTA FE SPRINGS  
DATE OF JOB: 1963

TYPE: OIL

DEPONENT: NEALES, WILLIAM K., JR.  
TRADE: INSULATOR

LOCAT.: 5  
SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK,  
COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P  
GREEN

JOBSITE: TISHMAN BUILDING  
LOCATION: LOS ANGELES  
DATE OF JOB: 1959

TYPE: BLDG

DEPONENT: NEALES, WILLIAM K., JR.  
TRADE: INSULATOR

LOCAL: 5  
SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK,  
COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P  
GREEN

COWORKERS: BERNIE KAYLER, JEFF SCHAFFER, JIM ROWE, HERB JUSTICE

JOBSITE: YUMA STEAM POWERPLANT  
POWERPLANT  
LOCATION: YUMA, ARIZONA (AZ)  
DATE OF JOB: 1959

TYPE:

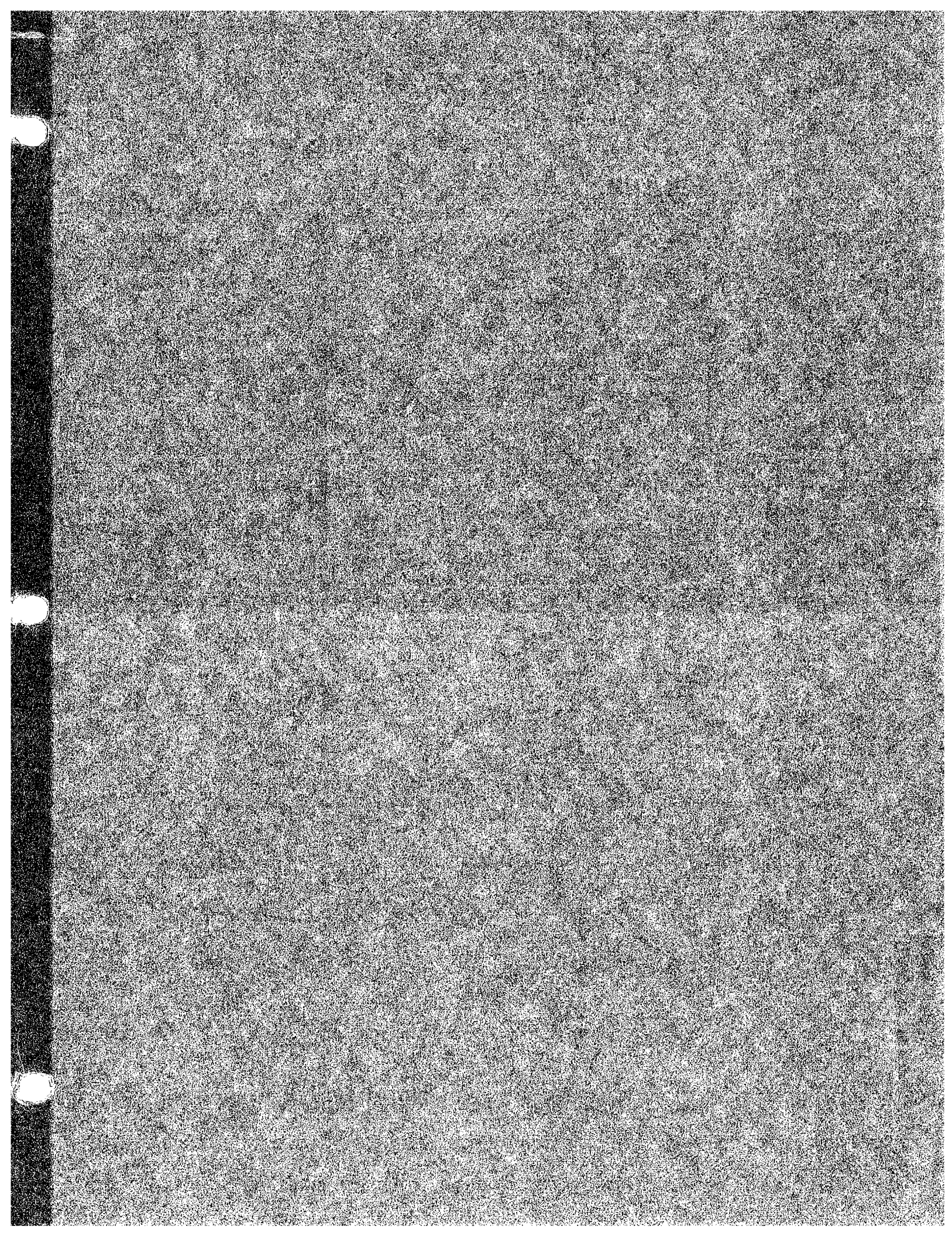
DEPONENT: NEALES, WILLIAM K., JR.  
TRADE: INSULATOR

LOCAL: 5  
SR:

DATE OF DEPO: 2/25/91

PRODUCTS NAMED: JM, CAREY, H K PORTER, EP, FLINTKOTE, DETRICK,  
COMBUSTION ENGINEERING, PABCO, CELOTEX, 48, FOSTER, PLANT, A P  
GREEN

COWORKERS: EDDY BICKWORTH, FRENCHIE HEBERT, JOHN GARDNER, LARRY  
GIBSON, E. BYCOFT, JERRY ROBERTS, SONNY WOOD



incompl  
10.30

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5 Attorneys for Defendant,  
A.P. GREEN SERVICES, INC.,  
6 fka "Bigelow-Liptak Corp."

WARTNICK LAW FIRM

8 IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA  
9 IN AND FOR THE COUNTY OF SAN FRANCISCO

10  
11 IN RE COMPLEX ASBESTOS LITIGATION ) No. 828684  
12 )  
13 ) VERIFIED RESPONSES OF A.P.  
14 ) GREEN SERVICES, INC., TO  
15 ) PLAINTIFFS' STANDARD  
16 ) GENERAL ORDER 29  
17 ) INTERROGATORIES TO  
18 ) DEFENDANTS

19 COMES NOW, Defendant, A.P. GREEN SERVICES, INC., formerly  
20 known as "Bigelow-Liptak Corporation", and hereby submits the  
21 following verified responses to Plaintiffs' Standard  
22 Interrogatories to Defendants, propounded pursuant to General  
23 Order No. 29, as follows:

24 INTERROGATORY NO. 1:

25 With respect to the individual verifying these answers on  
26 your behalf, state the following:

- 27 (a) Their name;
- 28 (b) Their present business address;
- (c) Their present job title;
- (d) Their date of first employment with you, and the



1 dates and titles of each job position they have held while they  
2 were employed by you.

3

4 RESPONSE TO INTERROGATORY NO. 1:

- 5 (a) Michael B. Cooney.  
6 (b) Green Blvd., Mexico, Missouri 65265.  
7 (c) Corporate Secretary; Member of Board of Directors.  
8 (d) Michael B. Cooney has been Corporate Secretary of  
9 Bigelow-Liptak Corporation since early 1988.

10

11 INTERROGATORY NO. 2:

12 Please state whether or not you are a corporation, and if  
13 so, state:

- 14 (a) Your correct corporate name;  
15 (b) Your state of incorporation;  
16 (c) The date of your incorporation;  
17 (d) The address of your principal place of  
18 business;  
19 (e) Whether or not you have ever held a certificate of  
20 authority to do business in this state, and if so, the inclusive  
21 dates of any certificate;  
22 (f) Whether or not you have a registered agent for the  
23 purpose of accepting service of process in this state, and if so,  
24 their name and present address;  
25 (g) If you are wholly owned or the majority interest of  
26 your company is owned by another business entity, state that  
27 entity's name and principal place of business.

28

1 **RESPONSE TO INTERROGATORY NO. 2:**

- 2 (a) A.P. Green Services, Inc.  
3 (b) Michigan.  
4 (c) 1926.  
5 (d) Green Blvd., Mexico, Missouri 65265.  
6 (e) Yes, from 1967 to October 1, 1989.  
7 (f) Not at this time.  
8 (g) Defendant is a wholly owned, separately managed  
9 subsidiary corporation of A.P. Green Industries, Inc.

10

11 **INTERROGATORY NO. 3:**

12 Have you ever been identified, known, or done business  
13 under any other name? If so, please state such name or names and  
14 the time period during which this defendant was so known or  
15 identified.

16

17 **RESPONSE TO INTERROGATORY NO. 3:**

18 Defendant was originally known as "Bigelow Arch Company"  
19 in 1926. Bigelow Arch Company changed its name to "Bigelow-  
20 Liptak Corporation" in 1927. Bigelow-Liptak Corporation changed  
21 its name to "A.P. Green Services, Inc." in 1985. Before the time  
22 the name was formally changed from Bigelow-Liptak to A.P. Green  
23 Services, Inc., defendant did business within the relevant  
24 geographic area (as defined herein) under the name "A.P. Green  
25 Services" beginning sometime in the early to mid 1960's.

26 Investigation and discovery are continuing. Defendant  
27 hereby reserves the right to rely at the time of trial or other  
28 later proceeding on any later discovered information that may

1 otherwise be responsive to this interrogatory.

2

3 INTERROGATORY NO. 4:

4 State whether you have controlled, purchased, or in any  
5 way acquired any interest in any corporation or business entity  
6 which has mined, manufactured, produced, processed, compounded,  
7 sold, supplied, distributed and/or otherwise placed asbestos or  
8 asbestos-containing products in the stream of commerce, and if  
9 so, state:

10 (a) The name and address of said corporation or business  
11 entity;

12 (b) The dates you controlled, purchased or acquired any  
13 interest; and

14 (c) Set forth the nature of the business as it pertains  
15 to asbestos.

16

17 RESPONSE TO INTERROGATORY NO. 4:

18 No.

19

20 INTERROGATORY NO. 5:

21 Since 1930, at any time did you own any shares of stock  
22 or otherwise have an ownership interest in a company that either  
23 mines, produces, or sells raw asbestos fiber? If the answer is  
24 in the affirmative, state the following:

25 (a) The name of such corporation or entity;

26 (b) The date of incorporation or charter;

27 (c) The state or country of incorporation;

28 (d) Each ownership interest owned in each corporation,

- 1 setting forth any change in such interest;
- 2 (e) The date such interest was acquired;
- 3 (f) The date of formation of such corporation or entity;
- 4 (g) The names of all shareholders owning more than 5% of
- 5 the shares of stock of such corporation;
- 6 (h) The date such interest changed or terminated, if
- 7 applicable;
- 8 (i) The name and location of each asbestos mine so
- 9 owned;
- 10 (j) The grade and type of asbestos mined at each mine.
- 11

12 RESPONSE TO INTERROGATORY NO. 5:

13 No.

14

15 INTERROGATORY NO. 6:

16 Please state the following:

- 17 (a) The address where the corporate records of this
- 18 defendant are currently located; and
- 19 (b) The name, job title, and current address of the
- 20 custodian for this defendant's corporate records.
- 21

22 RESPONSE TO INTERROGATORY NO. 6:

- 23 (a) Green Blvd., Mexico, Missouri 65265.
- 24 (b) Michael B. Cooney; Corporate Secretary;
- 25 Green Blvd., Mexico, Missouri 65265.
- 26

27 INTERROGATORY NO. 7:

28 Please state whether this defendant, between 1930 and

1 1985, has ever engaged in the following activities with regard to  
2 raw asbestos fiber, and if so, please state the inclusive dates  
3 of such activity:

- 4 (a) Mining;
- 5 (b) Milling;
- 6 (c) Supply;
- 7 (d) Importing;
- 8 (e) Processing;
- 9 (f) Distribution;
- 10 (g) Marketing;
- 11 (h) Sale.

12

13 RESPONSE TO INTERROGATORY NO. 7:

14 No.

15

16 INTERROGATORY NO. 8:

17 Please state whether this defendant, between 1930 and  
18 1985, has ever engaged in the following activities with regard to  
19 asbestos-containing products, and if so, please state the  
20 inclusive dates of such activity;

- 21 (a) Supply;
- 22 (b) Importing;
- 23 (c) Distribution;
- 24 (d) Marketing;
- 25 (e) Sale;
- 26 (f) Labelling;
- 27 (g) Manufacturing.

28

1 RESPONSE TO INTERROGATORY NO. 8:

2 (a) No, this defendant did not "supply" any asbestos-  
3 containing products as an individual commodity. This defendant  
4 was primarily a refractory contractor within the relevant  
5 geographic area. Defendant was engaged in the business of  
6 installing and repairing high temperature furnace and vessel  
7 linings.

8 This defendant may have installed some asbestos-  
9 containing products in some of those units on which it worked.  
10 The lining materials installed by this defendant, including any  
11 asbestos-containing products, would generally have either been  
12 supplied by the customer with whom this defendant had contracted,  
13 or provided by this defendant as part of the lump sum price for  
14 the services performed.

15 Investigation and discovery are continuing. Defendant  
16 hereby reserves the right to rely at the time of trial or other  
17 later proceeding on any later discovered information that may  
18 otherwise be responsive to this interrogatory.

19 (b) No. Investigation and discovery are continuing.  
20 Defendant hereby reserves the right to rely at the time of trial  
21 or other later proceeding on any later discovered information  
22 that may otherwise be responsive to this interrogatory.

23 (c) No. Investigation and discovery are continuing.  
24 Defendant hereby reserves the right to rely at the time of trial  
25 or other later proceeding on any later discovered information  
26 that may otherwise be responsive to this interrogatory.

27 (d) No. See also response to 8(a), above.  
28 Investigation and discovery are continuing. Defendant hereby

1 reserves the right to rely at the time of trial or other later  
2 proceeding on any later discovered information that may otherwise  
3 be responsive to this interrogatory.

4 (e) No. See also response to 8(a), above.

5 Investigation and discovery are continuing. Defendant hereby  
6 reserves the right to rely at the time of trial or other later  
7 proceeding on any later discovered information that may otherwise  
8 be responsive to this interrogatory.

9 (f) No. Investigation and discovery are continuing.  
10 Defendant hereby reserves the right to rely at the time of trial  
11 or other later proceeding on any later discovered information  
12 that may otherwise be responsive to this interrogatory.

13 (g) No. This defendant did not manufacture any asbestos  
14 containing products. Investigation and discovery are continuing.  
15 Defendant hereby reserves the right to rely at the time of trial  
16 or other later proceeding on any later discovered information  
17 that may otherwise be responsive to this interrogatory.

18

19 **INTERROGATORY NO. 9:**

20 If your answer to Interrogatory No. 7 regarding "raw  
21 asbestos fiber" is in the affirmative, please state the  
22 following:

23 (a) The trade, brand name, and/or generic name of each  
24 such raw asbestos fiber mined, milled, supplied, distributed,  
25 processed, imported, labelled, and/or marketed in any form or  
26 quantity between 1930 and 1985;

27 (b) The date(s) each such raw asbestos fiber was first  
28 placed on the market, including the date(s) each such raw

1 asbestos fiber was first marketed:

2 (i) on an experimental basis;

3 (ii) on a test basis; or

4 (iii) for sale.

5 (c) The date(s) each such raw asbestos fiber:

6 (i) ceased to be produced; or

7 (ii) was recalled from the market, if

8 ever.

9 (d) A description of the chemical composition of each  
10 such raw asbestos fiber, including the type and/or grade of

11 asbestos;

12 (e) A description of the physical appearance and nature

13 of each such raw asbestos fiber, including any color coding,

14 distinctive marking and/or logo;

15 (f) A detailed description of the intended use of each

16 such raw asbestos fiber, including any temperature limits for

17 each such use;

18 (g) Whether such raw asbestos fiber was on the U.S.

19 Government's "Qualified Products List", and if so, the inclusive

20 dates it was on such list;

21 (h) Whether any of this defendant's "raw asbestos

22 fibers" have, at any time, been sold to any companies (including

23 power companies or utilities), shipyards, distributors,

24 refineries, suppliers and/or manufacturers in the defined

25 geographic area. If so, please state:

26 (i) The names of each such company,

27 shipyard, distributor, supplier, manufacturer or refinery;

28 (ii) The inclusive dates of each such



1 sale, and the amount (volume) and the trade or brand name of each  
2 such raw asbestos fiber sold;

3 (iii) Whether you have any records  
4 indicating any such sale and, if so, the name, address and job  
5 classification of each individual who currently has possession of  
6 such records.

7 (i) Describe the types of records sufficiently to  
8 identify them for discovery purposes which set forth any of the  
9 foregoing information and the custodian thereof (giving name and  
10 address) of each such records.

11

12 RESPONSE TO INTERROGATORY NO. 9:

13 Not applicable. See response to Interrogatory No. 7,  
14 above.

15

16 INTERROGATORY NO. 10:

17 If your answer to Interrogatory No. 8 regarding  
18 "asbestos-containing products" is in the affirmative, please  
19 state the following:

20 (a) The trade, brand name, and/or generic name of each  
21 such asbestos-containing product sold, supplied, distributed,  
22 processed, imported, labelled, manufactured, and/or marketed in  
23 any form or quantity between 1930 and 1985;

24 (b) The date(s) each such asbestos-containing product  
25 was first placed on the market, including the date(s) each such  
26 asbestos-containing product was first marketed:

27 (i) on an experimental basis;

28 (ii) on a test basis; or

1 (iii) for sale.

2 (c) The date(s) each such asbestos-containing product:

3 (i) ceased to be produced; or

4 (ii) was recalled from the market, if

5 ever.

6 (d) A description of the chemical composition of each  
7 such asbestos-containing product, including the type and/or grade  
8 of asbestos and/or asbestos fiber contained in each such product  
9 and the quantitative percentage of asbestos or asbestos fiber in  
10 each such product;

11 (e) A description of the physical appearance and nature  
12 of each such asbestos-containing product, including any color  
13 coding, distinctive marking and/or logo;

14 (f) A detailed description of the intended use of each  
15 such asbestos-containing product, including any temperature  
16 limits for each such use;

17 (g) Whether any such asbestos-containing product was on  
18 the U.S. Government's "Qualified Products List", and if so, the  
19 inclusive dates it was on such list;

20 (h) The name and address of the supplier's of the raw  
21 asbestos fiber used in each such product and the time period of  
22 such supply;

23 (i) Whether any of this defendant's "asbestos-containing  
24 products" have, at any time, been sold to any companies  
25 (including power companies or utilities), shipyards,  
26 distributors, refineries, suppliers and/or manufacturers in the  
27 defined geographic area. If so, please state:

28 (i) The names of each such company,

1 shipyard, distributor, supplier, manufacturer or refinery;

2 (ii) The inclusive dates of each such  
3 sale, and the amount (volume) and the trade or brand name of each  
4 such asbestos-containing product sold;

5 (iii) Whether you have any records  
6 indicating any such sale and, if so, the name, address and job  
7 classification of each individual who currently has possession of  
8 such records.

9 (j) Describe the types of records sufficiently to  
10 identify them for discovery purposes which set forth any of the  
11 foregoing information and the custodian thereof (giving name and  
12 address) of each such records.

13

14 **RESPONSE TO INTERROGATORY NO. 10:**

15 This defendant was primarily a refractory contractor  
16 within the relevant geographic area. Defendant was engaged in  
17 the business of installing and repairing high temperature furnace  
18 and vessel linings. Defendant did not manufacture, import,  
19 distribute or label asbestos-containing products. Defendant did  
20 not sell, "supply" or market asbestos-containing products as an  
21 individual commodity. Defendant was, at most, only a consumer of  
22 these products.

23 This defendant may have installed some asbestos-  
24 containing products in some of those units on which it worked.  
25 The lining materials installed by this defendant, including any  
26 asbestos-containing products, would generally have either been  
27 supplied by the customer with whom this defendant had contracted,  
28 or provided by this defendant as part of the lump sum price for

1 the services performed.

2           The asbestos-containing products that may have been  
3 installed by this defendant were generally either manufactured by  
4 Eagle-Picher pursuant to a private labeling agreement with this  
5 defendant as described in response to Interrogatory No. 13,  
6 infra., or were supplied by other manufacturers. It is unknown  
7 at this time what asbestos-containing products, if any, were used  
8 by this defendant in California.

9           Investigation and discovery are continuing. Defendant  
10 hereby reserves the right to rely at the time of trial or other  
11 later proceeding on any later discovered information that may  
12 otherwise be responsive to this interrogatory.

13           (b) Unknown. This defendant would have only used these  
14 products as a contractor. Investigation and discovery are  
15 continuing. Defendant hereby reserves the right to rely at the  
16 time of trial or other later proceeding on any later discovered  
17 information that may otherwise be responsive to this  
18 interrogatory.

19           (c) Unknown. This defendant would have only used these  
20 products as a contractor. Investigation and discovery are  
21 continuing. Defendant hereby reserves the right to rely at the  
22 time of trial or other later proceeding on any later discovered  
23 information that may otherwise be responsive to this  
24 interrogatory.

25           (d) The exact chemical composition of these products is  
26 unknown at this time. Defendant did not design or manufacture  
27 these products. This defendant would have only used these  
28 products as a contractor. Please see, however, response to

1 Interrogatory No. 20, infra., with respect to product information  
2 sheets.

3 Investigation and discovery are continuing. Defendant  
4 hereby reserves the right to rely at the time of trial or other  
5 later proceeding on any later discovered information that may  
6 otherwise be responsive to this interrogatory.

7 (e) Defendant did not design or manufacture these  
8 products. This defendant would have only used these products as  
9 a contractor. Please see, however, response to Interrogatory No.  
10 20, infra., with respect to product information sheets.

11 Investigation and discovery are continuing. Defendant  
12 hereby reserves the right to rely at the time of trial or other  
13 later proceeding on any later discovered information that may  
14 otherwise be responsive to this interrogatory.

15 (f) Defendant did not design or manufacture these  
16 products. This defendant would have only used these products as  
17 a contractor. Please see, however, response to Interrogatory No.  
18 20, infra., with respect to product information sheets.

19 Investigation and discovery are continuing. Defendant  
20 hereby reserves the right to rely at the time of trial or other  
21 later proceeding on any later discovered information that may  
22 otherwise be responsive to this interrogatory.

23 (g) Unknown at this time. This defendant would have  
24 only used these products as a contractor.

25 Investigation and discovery are continuing. Defendant  
26 hereby reserves the right to rely at the time of trial or other  
27 later proceeding on any later discovered information that may  
28 otherwise be responsive to this interrogatory.

1 (h) Unknown at this time. This defendant would have  
2 only used these products as a contractor.

3 Investigation and discovery are continuing. Defendant  
4 hereby reserves the right to rely at the time of trial or other  
5 later proceeding on any later discovered information that may  
6 otherwise be responsive to this interrogatory.

7 (i) Not applicable. As previously stated, this  
8 defendant was primarily a refractory contractor within the  
9 relevant geographic area. Defendant was engaged in the business  
10 of installing and repairing high temperature furnace and vessel  
11 linings. Defendant did not manufacture, import, distribute or  
12 label asbestos-containing products. Defendant did not sell,  
13 "supply" or market asbestos-containing products as an individual  
14 commodity. At most, this defendant was a consumer of these  
15 products. See response to Interrogatory No. 8, above.

16 Investigation and discovery are continuing. Defendant  
17 hereby reserves the right to rely at the time of trial or other  
18 later proceeding on any later discovered information that may  
19 otherwise be responsive to this interrogatory.

20 (j) See response to section 10(i), above.

21 Investigation and discovery are continuing. Defendant  
22 hereby reserves the right to rely at the time of trial or other  
23 later proceeding on any later discovered information that may  
24 otherwise be responsive to this interrogatory.

25

26 **INTERROGATORY NO. 11:**

27 If any of the distributors identified in your answer to  
28 Interrogatory Nos. 9 and 10 above was an exclusive

1 distributorship, please so state and identify the relevant time  
2 period.

3

4 **RESPONSE TO INTERROGATORY NO. 11:**

5 Not applicable. Defendant has not identified any  
6 distributors in response to Interrogatory No.s 9 and 10. See  
7 responses to Interrogatory No.s 9 and 10, above.

8 Investigation and discovery are continuing. Defendant  
9 hereby reserves the right to rely at the time of trial or other  
10 later proceeding on any later discovered information that may  
11 otherwise be responsive to this interrogatory.

12

13 **INTERROGATORY NO. 12:**

14 If this defendant entered into any agreements for the re-  
15 branding of any asbestos-containing product(s) and/or material(s)  
16 mined, imported, manufactured, sold, distributed, and/or supplied  
17 by this defendant for resale or distribution by another company,  
18 describe each agreement's terms and the parties to said  
19 agreement, the duration of the agreement, and name of each  
20 product(s) and/or material(s) covered by each such agreement.

21

22 **RESPONSE TO INTERROGATORY NO. 12:**

23 Not applicable. This defendant did not enter into any  
24 such agreements.

25 Investigation and discovery are continuing. Defendant  
26 hereby reserves the right to rely at the time of trial or other  
27 later proceeding on any later discovered information that may  
28 otherwise be responsive to this interrogatory.

1 **INTERROGATORY NO. 13:**

2           If this defendant entered into any agreements for the re-  
3 branding of asbestos-containing products and/or materials mined,  
4 imported, manufactured, sold, distributed, and/or supplied by  
5 another company for resale or distribution by your company,  
6 describe each of the agreements and the parties to said  
7 agreement, the terms, the duration, and the names of each  
8 product(s) and/or material(s) covered by each such agreement.

9  
10 **RESPONSE TO INTERROGATORY NO. 13:**

11           A private labeling agreement was entered into between  
12 Bigelow-Liptak Corporation and Eagle-Picher in 1949. Eagle-  
13 Picher agreed to manufacture and sell to Bigelow-Liptak for its  
14 own use various products with a Bigelow-Liptak label.

15           Those asbestos-containing products manufactured by Eagle-  
16 Picher for use by Bigelow-Liptak include the following:

- 17           C-18 Insulating Cement;
- 18           C-10 Finishing Cement;
- 19           FC-11 Insulating Finishing Cement;
- 20           RC-23 Insulating Cement;
- 21           WP protective coating;
- 22           BC plastic-type coating.

23           Investigation and discovery are continuing. Defendant  
24 hereby reserves the right to rely at the time of trial or other  
25 later proceeding on any later discovered information that may  
26 otherwise be responsive to this interrogatory.

27  
28



1 INTERROGATORY NO. 14:

2 State whether any asbestos used, processed, mined,  
3 manufactured, imported, supplied, distributed, labelled, and/or  
4 sold by this defendant was purchased from or acquired from the  
5 General Service Administrative or any branch or agency of the  
6 United States Government during the period 1930 to 1985. If your  
7 answer is in the affirmative, state:

8 (a) The name and address of the agency which supplied  
9 the asbestos;

10 (b) The grade and types of asbestos purchased or  
11 acquired;

12 (c) The quantities of each type of asbestos purchased or  
13 acquired annually during the period 1930 to 1985;

14 (d) The means of packaging;

15 (e) The health warnings, if any, which accompanied each  
16 shipment of asbestos, and indicate when said warnings were first  
17 made part of the shipments.

18  
19 RESPONSE TO INTERROGATORY NO. 14:

20 This information is unknown at this time. As previously  
21 stated, this defendant was primarily a refractory contractor  
22 within the relevant geographic area. Defendant was engaged in  
23 the business of installing and repairing high temperature furnace  
24 and vessel linings. Defendant did not manufacture, import,  
25 distribute or label asbestos-containing products. Defendant did  
26 not sell, "supply" or market asbestos-containing products as an  
27 individual commodity. At most, this defendant was a consumer of  
28 these products.

1 Investigation and discovery are continuing. Defendant  
2 hereby reserves the right to rely at the time of trial or other  
3 later proceeding on any later discovered information that may  
4 otherwise be responsive to this interrogatory.  
5

6 **INTERROGATORY NO. 15:**

7 As to each such asbestos-containing product listed in  
8 defendant's preceding answers to interrogatories, did defendant  
9 put on such products or their containers any warning of their  
10 hazards to health by virtue of the asbestos content of such  
11 products? If so, state for each such warning:

12 (a) Each such warning with particularity, with regard to  
13 size, color, and location; whether the warning was contained on  
14 the material or on the container; whether the warning was  
15 printed, stamped, and/or placed on a tag; and nature and wording  
16 or other content. State whether you have any photographs  
17 thereof;

18 (b) The inclusive date on which you began using each  
19 such warning on each of your asbestos-containing products; and

20 (c) All changes you made in such warnings and the dates  
21 of such changes.  
22

23 **RESPONSE TO INTERROGATORY NO. 15:**

24 (a) This defendant would have only used these products  
25 as a contractor. This information is equally available in this  
26 litigation to plaintiffs from the manufacturers of these  
27 products. As previously stated, this defendant was primarily a  
28 refractory contractor within the relevant geographic area.

1 Defendant was engaged in the business of installing and repairing  
2 high temperature furnace and vessel linings. Defendant did not  
3 manufacture, import, distribute or label asbestos-containing  
4 products. Defendant did not sell, "supply" or market asbestos-  
5 containing products as an individual commodity. See response to  
6 Interrogatory No. 8, above.

7           Since this defendant did not manufacture any asbestos-  
8 containing products and did not sell, "supply" or market any such  
9 products as an individual commodity, it did not devise any  
10 warnings. Instead, this defendant relied upon any and all  
11 warnings or other product information that was supplied to  
12 consumers by the manufacturers.

13           With respect to those asbestos-containing products  
14 manufactured by Eagle-Picher for use by Bigelow-Liptak, Eagle-  
15 Picher included a cautionary note which was placed on the  
16 packaging. Defendant is informed and believes that Eagle-Picher  
17 began including the cautionary note in 1964. Eagle-Picher  
18 stopped making asbestos-containing products in 1971.

19           The Eagle-Picher cautionary note read as follows:

20                   "CAUTION. This product contains  
21                   asbestos fiber. Inhalation of asbestos  
22                   in excessive quantities over long  
23                   periods of time may be harmful. If dust  
24                   is created when this product is  
25                   handled, avoid breathing the dust. If  
26                   adequate ventilation control is not  
27                   possible, wear respirators approved by  
28                   the U.S. Bureau of Mines for  
                    Pneumoconiosis producing dust".

26           The size, color and location of the Eagle-Picher  
27 cautionary note is unknown at this time. Defendant recalls that  
28 the cautionary note was to be printed on the packaging.

1 Defendant is unaware at this time of any photographs of the  
2 cautionary note.

3 Investigation and discovery are continuing. Defendant  
4 hereby reserves the right to rely at the time of trial or other  
5 later proceeding on any later discovered information that may  
6 otherwise be responsive to this interrogatory.

7 (b) This defendant would have only used these products  
8 as a contractor. This information is equally available in this  
9 litigation to plaintiffs from the manufacturers of these  
10 products. See response to 15(a), above.

11 Investigation and discovery are continuing. Defendant  
12 hereby reserves the right to rely at the time of trial or other  
13 later proceeding on any later discovered information that may  
14 otherwise be responsive to this interrogatory.

15 (c) This defendant would have only used these products  
16 as a contractor. This information is equally available in this  
17 litigation to plaintiffs from the manufacturers of these  
18 products. Defendant is unaware at this time of any changes  
19 that may have been made to the Eagle-Picher cautionary note.

20 Investigation and discovery are continuing. Defendant  
21 hereby reserves the right to rely at the time of trial or other  
22 later proceeding on any later discovered information that may  
23 otherwise be responsive to this interrogatory.

24

25 **INTERROGATORY NO. 16:**

26 As to any of the bags of raw asbestos fiber referred to  
27 in defendant's preceding answers to interrogatories, did  
28 defendant put on such bags any warning of the hazards to health

1 by virtue of the asbestos contained therein? If so, state for  
2 each such warning:

3 (a) Each such warning with particularity, with regard to  
4 size, color, location, wording or other content; whether the  
5 warning was contained on the material or on the container;  
6 whether the warning was printed, stamped, and/or placed on a tag  
7 attached to the material or container;

8 (b) The inclusive dates each such warning was issued on  
9 your bags of raw asbestos fiber;

10 (c) All changes you made in such warnings, the dates of  
11 such changes, and the inclusive dates of such changes; and

12 (d) The name, address and job title of each person who  
13 presently has possession of samples or documents relating to the  
14 above warnings.

15

16 **RESPONSE TO INTERROGATORY NO. 16:**

17 Not applicable. See response to Interrogatory No. 7,  
18 above.

19

20 **INTERROGATORY NO. 17:**

21 With respect to each of your asbestos-containing  
22 products, state whether this defendant's name, a trademark,  
23 logos, color coding, or other identifying markings ever appeared  
24 on the actual product itself. If so, identify each such product,  
25 state when the practice to place such identifying markings upon  
26 the product was begun and when it ended, if applicable, and  
27 describe in detail the pertinent marking(s) and the purpose, if  
28 any, of such markings.

1 and/or raw asbestos fibers. Identify the name of the case, the  
2 court of filing, the court docket number, and the date of the  
3 deposition.

4  
5 RESPONSE TO INTERROGATORY NO. 18:

6 As previously stated, this defendant was primarily a  
7 refractory contractor within the relevant geographic area.  
8 Defendant was engaged in the business of installing and repairing  
9 high temperature furnace and vessel linings.

10 Defendant did not manufacture, import, distribute or  
11 label asbestos-containing products. Defendant did not sell,  
12 "supply" or market asbestos-containing products as an individual  
13 commodity. At most, this defendant was a consumer of these  
14 products. See response to Interrogatory No. 8, above.

15 Defendant identifies the following deposition(s):

16 1. Robt. W. Jones; North Dakota (October 1, 1992)  
17 (Charles Anderson, et al. v. AcandS, Inc., et al., In District  
18 Court, South Central Judicial Division, County of Burleigh, North  
19 Dakota; Cause No. Filed Generally In Asbestos Litigation).

20 2. Robt. W. Jones; West Virginia (August 6, 1993) (In  
21 Re: Asbestos; Civil Action No. 92-C-8888, In The Circuit Court of  
22 Kanawha County, West Virginia).

23 3. Michael B. Cooney; (May 22, 1996) (Carl Cox, et al.,  
24 vs. Abex Corp., et al., Civil Action No. 964985, et al., In The  
25 Superior Court Of California In And For The City And County Of  
26 San Francisco).

27 4. Michael B. Cooney; (April 3, 1997) (Rafi Barkat, et  
28 al., vs. Asbestos Defendants; Civil Action No. 980647; In The  
Superior Court Of California In And For The City And County Of  
San Francisco).

5. Michael B. Cooney; (April 4, 1997) (Wartnick Group  
34: Karen Gatton vs. Raybestos-Manhattan, Inc. et al.; Civil  
Action No. 970360 et al.; In The Superior Court Of California In  
And For The City And County Of San Francisco).

Investigation and discovery are continuing. Defendant

1 hereby reserves the right to rely at the time of trial or other  
2 later proceeding on any later discovered information that may  
3 otherwise be responsive to this interrogatory.

4

5 **INTERROGATORY 19:**

6           Between the years 1930 and 1985, did this defendant  
7 purchase or otherwise acquire any asbestos-containing product  
8 line from another company? If so, please state for each such  
9 purchase:

10           (a) Date of contract of sale;

11           (b) Terms of purchase and sale agreement, or if you will  
12 do so without a motion to produce, attach a copy of said  
13 agreement(s) to your answers;

14           (c) Trade, brand, and/or generic name of each such  
15 product line so acquired;

16           (d) Name of company from whom you purchased each such  
17 asbestos-containing product line; and

18           (e) Location of any manufacturing facilities so  
19 acquired, and the type of asbestos products manufactured therein.

20

21 **RESPONSE TO INTERROGATORY NO. 19:**

22           No. Investigation and discovery are continuing.

23 Defendant hereby reserves the right to rely at the time of trial  
24 or other later proceeding on any later discovered information  
25 that may otherwise be responsive to this interrogatory.

26

27 **INTERROGATORY NO. 20:**

28           Identify all brochures, pamphlets, catalogs or other

1 advertising relating to asbestos-containing products and/or raw  
2 asbestos fibers which this defendant manufactured, sold,  
3 distributed or supplied from the year 1930 to 1985. For each  
4 such document please state:

5 (a) A description of the document;

6 (b) The year it was printed;

7 (c) The period of time in which it was used;

8 (d) The purpose of such document;

9 (e) Whether the documents or copies of said document  
10 presently exist;

11 (f) If said documents or copies still exist, where they  
12 are located; and

13 (g) The name, job title, and current address of the  
14 custodian of such documents.

15

16 **RESPONSE TO INTERROGATORY NO. 20:**

17 This defendant was primarily a refractory contractor  
18 within the relevant geographic area. Defendant was engaged in  
19 the business of installing and repairing high temperature furnace  
20 and vessel linings.

21 Defendant did not manufacture, import, distribute or  
22 label asbestos-containing products. Defendant did not sell,  
23 "supply" or market asbestos-containing products as an individual  
24 commodity. Defendant was, at most, only a consumer of these  
25 products. See response to Interrogatory No. 8, above.

26 Bigelow-Liptak did have a publication that generally  
27 describes the services it had to offer. This publication  
28 includes a reference to various materials that could be used in



1 Bigelow-Liptak refractory applications. See Exhibit "A",  
2 attached.

3 (a) Bigelow-Liptak promotional literature entitled  
4 "Bigelow-Liptak Industrial Furnace and Arch Construction."

5 (b) The year printed is unknown. However, this  
6 publication was copyrighted in 1954.

7 (c) This publication was copyrighted in 1954. The  
8 period of time in which it was used is unknown at this time.

9 (d) The exact purpose of this document is unknown at  
10 this time.

11 (e) Yes.

12 (f) Counsel on behalf of A.P. Green Services are in  
13 possession of copies.

14 (g) See subpart (f), above.

15 Bigelow-Liptak also had product information sheets for  
16 those products manufactured by Eagle-Picher for Bigelow-Liptak as  
17 described in response to Interrogatory No. 13, supra. See  
18 Exhibit "B", attached.

19 (a) Product information sheets.

20 (b) Unknown at this time.

21 (c) Unknown at this time.

22 (d) Provide product information.

23 (e) Yes.

24 (f) Counsel on behalf of A.P. Green Services are in  
25 possession of copies.

26 (g) See subpart (f), above.

27 Investigation and discovery are continuing. Defendant  
28 hereby reserves the right to rely at the time of trial or other

1 later proceeding on any later discovered information that may  
2 otherwise be responsive to this interrogatory.

3

4 **INTERROGATORY NO. 21:**

5           Were any of the raw asbestos fibers identified in  
6 Interrogatory No. 9 sold, shipped or distributed to the General  
7 Services Administration (GSA)? If so, specify the type of raw  
8 asbestos fiber and state the period of time.

9

10 **RESPONSE TO INTERROGATORY NO. 21:**

11           Not applicable. See response to Interrogatory No. 9,  
12 above.

13

14 **INTERROGATORY NO. 22:**

15           Were any of the asbestos-containing products identified  
16 in Interrogatory No. 10 sold, shipped or distributed to General  
17 Services Administration (GSA)? If so, specify the name of the  
18 asbestos-containing products and state the period of time.

19

20 **RESPONSE TO INTERROGATORY NO. 22:**

21           This defendant was primarily a refractory contractor  
22 within the relevant geographic area. Defendant was engaged in  
23 the business of installing and repairing high temperature furnace  
24 and vessel linings. Defendant did not manufacture, import,  
25 distribute or label asbestos-containing products. Defendant did  
26 not sell, "supply" or market asbestos-containing products as an  
27 individual commodity. At most, this defendant was a consumer of  
28 these products. See response to Interrogatory No. 8, above.

1 Investigation and discovery are continuing. Defendant  
2 hereby reserves the right to rely at the time of trial or other  
3 later proceeding on any later discovered information that may  
4 otherwise be responsive to this interrogatory.

5  
6 **INTERROGATORY NO. 23:**

7 Please state if you formed within your corporate  
8 structure an entity known as a "contract unit".  
9

10 **RESPONSE TO INTERROGATORY NO. 23:**

11 As "contract unit" is defined in these interrogatories,  
12 this defendant did not form a contract unit within its corporate  
13 structure. However, this defendant was primarily a refractory  
14 contractor within the relevant geographic area. Defendant was  
15 engaged in the business of installing and repairing high  
16 temperature furnace and vessel linings.  
17

18 **INTERROGATORY NO. 24:**

19 Please state whether or not any of your "contract units"  
20 were employed in the installation and/or removal of raw asbestos  
21 fiber and/or asbestos-containing products at any time in the  
22 defined geographic area for the years 1930 to 1985. If so,  
23 please state:

24 (a) The inclusive periods of time the contract units  
25 were working in the defined geographic area;

26 (b) The business addresses and names of the contract  
27 units;

28 (c) Any records showing the locations of the jobsites

1 where the contract units worked, and if so, describe them  
2 sufficiently to identify them for discovery purposes, and their  
3 present custodian;

4 (d) Did your contract units work in any shipyards,  
5 refineries, power plants, utility companies, breweries, or other  
6 jobsites in the defined geographic area? If so, state the name  
7 of those jobsites and the dates the contract units worked at  
8 those jobsites;

9 (e) For each jobsite listed above, state the type and  
10 nature of the work that was done.

11  
12 **RESPONSE TO INTERROGATORY NO. 24:**

13 (a) Bigelow-Liptak did business within the relevant  
14 geographic area under the name "A.P. Green Services" and would  
15 install and repair high temperature furnace and vessel linings.  
16 Some of these linings may have utilized asbestos-containing  
17 products. Bigelow-Liptak did business under the name "A.P. Green  
18 Services" beginning in the early 1960's until approximately 1985  
19 when the company name was changed.

20 Investigation and discovery are continuing. Defendant  
21 hereby reserves the right to rely at the time of trial or other  
22 later proceeding on any later discovered information that may  
23 otherwise be responsive to this interrogatory.

24 (b) The A.P. Green Services office within the relevant  
25 geographic area was located at 580 Indiana Street, in San  
26 Francisco, California.

27 Investigation and discovery are continuing. Defendant  
28 hereby reserves the right to rely at the time of trial or other

1 later proceeding on any later discovered information that may  
2 otherwise be responsive to this interrogatory.

3 (c) It is impossible to determine from those business  
4 records that still exist today the locations of jobsites within  
5 the relevant geographic area where this defendant installed or  
6 removed any asbestos-containing products.

7 This defendant is no longer in business and has long  
8 since disposed of the vast majority of its business records.  
9 When this defendant was actively engaged in business, it did  
10 maintain job cards and job files. Although job cards still exist  
11 today, it is unknown whether all cards have been retained. Most  
12 job files before 1981 have been discarded. Not all post-1981 job  
13 files have been retained.

14 The fact that a job card still exists does not  
15 necessarily mean that any work was actually done at the location.  
16 It was the general practice to create job cards at the time this  
17 defendant would bid a job. Defendant was not awarded every job  
18 it bid.

19 In addition, there is no reference on the job cards to  
20 the type of work to be performed. The job cards make no  
21 reference to the installation, removal or repair of any  
22 materials, asbestos- containing or otherwise.

23 Investigation and discovery are continuing. Defendant  
24 hereby reserves the right to rely at the time of trial or other  
25 later proceeding on any later discovered information that may  
26 otherwise be responsive to this interrogatory.

27 (d) See response to Interrogatory No. 24(c), above.  
28 Investigation and discovery are continuing. Defendant hereby

1 reserves the right to rely at the time of trial or other later  
2 proceeding on any later discovered information that may otherwise  
3 be responsive to this interrogatory.

4 (e) See response to Interrogatory No. 24(c), above.  
5 Investigation and discovery are continuing. Defendant hereby  
6 reserves the right to rely at the time of trial or other later  
7 proceeding on any later discovered information that may otherwise  
8 be responsive to this interrogatory.

9

10 **INTERROGATORY NO. 25:**

11 From 1930 to present, did you have insurance against  
12 liability for the design, manufacture, distribution and sale of  
13 asbestos-containing products?

14

15 **RESPONSE TO INTERROGATORY NO. 25:**

16 This interrogatory calls for a legal conclusion  
17 concerning insurance coverage matters the answer to which this  
18 defendant does not currently know. There are coverage matters  
19 that have not yet been resolved between this defendant and its  
20 insurance carriers.

21

22 **INTERROGATORY NO. 26:**

23 If your answer to the preceding interrogatory is in the  
24 affirmative, please state:

- 25 (a) Name and address of each insurance company;  
26 (b) Date and number of each policy;  
27 (c) Limits of each policy, including the deductible; and  
28 (d) Name, address, and company position of person who

1 has custody of each policy.

2

3 RESPONSE TO INTERROGATORY NO. 26:

4           Again, this interrogatory calls for a legal conclusion  
5 concerning insurance coverage matters the answer to which this  
6 defendant does not currently know. There are coverage matters  
7 that have not yet been resolved between this defendant and its  
8 insurance carriers.

9           However, the defense of this A.P. Green Services in this  
10 litigation is currently being provided under a reservation of  
11 rights by various insurers. The lead insurer is the Great  
12 American Insurance Company, 580 Walnut Street, Cincinnati, Ohio  
13 45202-3180.

14

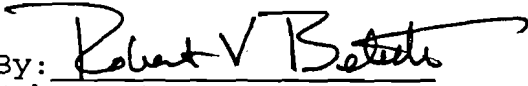
15

16 DATED: September 15, 1997

LYNCH, GILARDI & GRUMMER

17

18

By:   
Robert V. Betette, Esq.  
Attorneys for Defendant,  
A.P. GREEN SERVICES, INC.,  
fka "Bigelow-Liptak Corp."

19

20

21

22 ASB\APG\PIVER-RESP.G29

23

24

25

26

27

28

(AS AGREED, VARIFICATION TO FOLLOW)



1 **PROOF OF SERVICE**

2 I certify that I am over the age of 18 years and not a party to  
3 the within action; that my business address is 50 Francisco Street,  
4 Suite 400, San Francisco, CA 94133; and that on this date I served  
5 a true copy of the document(s) entitled: **A.P. Green Services,**  
6 **Inc.'s Verified Responses to Plaintiff's Standard General Order 29**  
7 **Interrogatories** in the matter of **IN RE COMPLEX ASBESTOS LITIGATION**  
8 on the following parties:

9 Wartnick, Chaber, et al.  
10 101 California Street, Ste. 2200  
11 San Francisco, CA 94111-5802  
12 Fax: (415) 986-5896

13 Service of the above noted document(s) was effectuated in the  
14 following manner:

- 15  **By Regular Mail** through enclosing them in a sealed envelope,  
16 addressed as noted above, with postage fully prepaid and  
17 placing them for collection and mailing following the  
18 ordinary business practices of Lynch, Gilardi & Grummer.
- 19  **By Hand Delivery** in a sealed envelope, addressed as noted  
20 above, through services provided by Lightning Messenger and  
21 billed to Lynch, Gilardi & Grummer.
- 22  **By Facsimile** to the numbers as noted above by placing them  
23 for facsimile transmittal, following the ordinary business  
24 practices of Lynch, Gilardi & Grummer.
- 25  **By Overnight Courier** in a sealed envelope, addressed as  
26 noted above, through services provided by Federal Express  
27 and billed to Lynch, Gilardi & Grummer.

28 I declare under penalty of perjury that the foregoing is true  
and correct.

Executed on September 16, 1997, at San Francisco, California.

29   
John R. Tate

EXHIBIT A

# BIGELOW-LIPTAK

AS0000012

**INDUSTRIAL FURNACE**

**WALL and ARCH CONSTRUCTION**

*"right in the heat of things . . ."*

**equals**  
**long life,**  
**low overall cost**

Retaining and directing heat for industry's processes is Bigelow-Liptak's job. Heat is used for power—it's used for refining petroleum and chemical products—it's used for drying wet materials—it's used for metal-working—it's used in the making of sugar and glass and cement and a host of other products. In all of these industries you will find installations of Bigelow-Liptak furnaces; they are, in fact, "right in the heat of things."

This booklet is designed to illustrate the different types of construction which Bigelow-Liptak Corporation considers as standard for industrial furnaces. Properly balanced in an installation—that is the use of the right design of wall and

arch—means a furnace which will provide long, dependable service. This book is designed only to give you a "thumbnail" outline of what B-L does. Naturally, further information is available.

Probably the most important factor that governs design is "on line" service. There is plenty of proof that low initial cost is false economy when the furnace fails to give the service that is expected of it. As the furnace enclosure is the area most subject to wear, its length of satisfactory service governs the satisfactory operation of the entire unit.

Therefore, maintenance is a vital consideration. Costs must be weighed; not only of repairs, but of the inconvenience and loss of production as well.

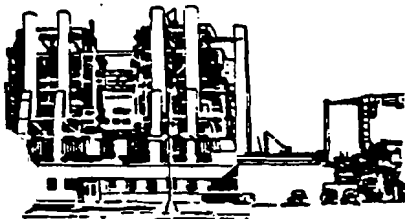
Bigelow-Liptak enclosures are completely engineered. Designs are the result of thorough investigation into the thermo-dynamics and mechanics involved in the unit.

In developing any furnace—large or small—consideration is placed upon long life and low cost. When repairs are needed, they can be made quickly and easily with conventional B-L tile and castings.

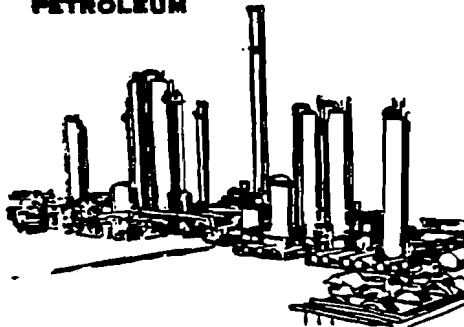
As there is no standard solution to the problem, each furnace becomes an individual problem with B-L engineers. Correct engineering is the one vital factor which assures the long life of the unit.

Because B-L furnace installations are designed to individual specifications this book is intended to show work standards only. The eventual design of any new furnace is decided by B-L engineers only after they have analyzed the work it is to do and have designed a unit that will meet specific requirements perfectly.

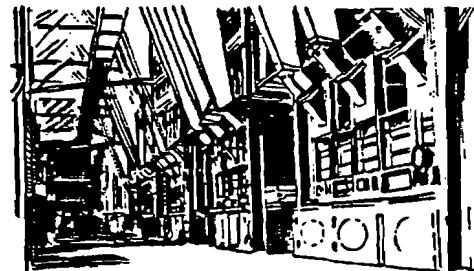
**POWER**



**PETROLEUM**



**SUGAR**

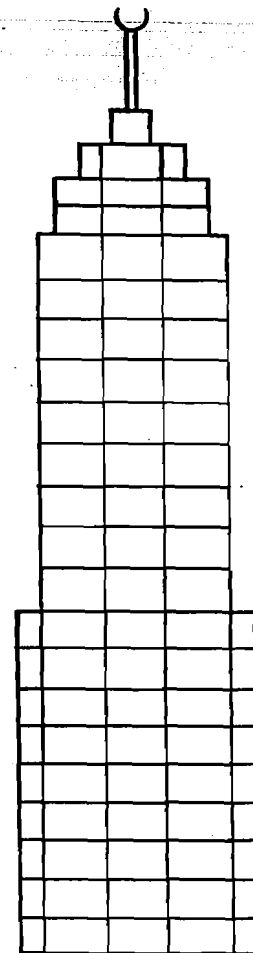


# Unit-Suspended Construction for Walls and Arches

Perhaps the most simple comparison of this type of construction is with a skyscraper. In erecting tall buildings, contractors first put up a steel framework. From this are hung masonry slabs. Result: elimination of cumulative loading on the bottom masonry. Often such buildings during construction are built with complete enclosures missing at one or more floor levels. This illustrates unit-suspension construction. Bigelow-Liptak pioneered unit-suspended construction for industrial furnaces which like a skyscraper results in no individual tile bearing more than its own weight. Like a skyscraper, too, courses of tile can be left out without disturbing courses above or below. This is a big advantage during repairs.

The furnace enclosure construction usually starts off with a structural steel framework surrounding the heat machine. From the steel is hung heat resistant castings. Refractories are placed on the castings just like books are placed on shelves. As each refractory tile is a unit in itself, all of the expansions and strains caused by temperature fluctuations are confined to the individual tile. This means that the walls literally breathe and that large cumulative movements caused by thermal change (and resulting wall cracking) cannot take place.

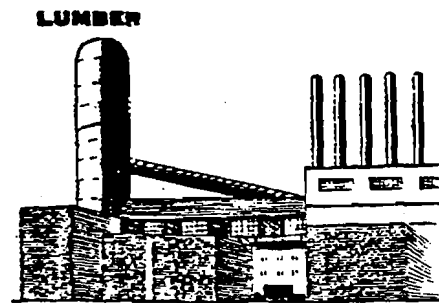
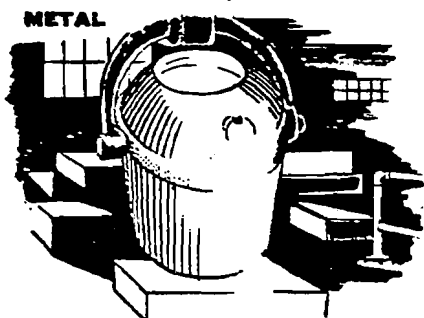
This is the secret of B-L unit suspension. Like a skyscraper, there are no limits as to contours and heights. Unit suspension is completely flexible. It promotes air tightness, negligible heat loss, and easy maintenance. When repairs are necessary, only worn tile need be replaced.



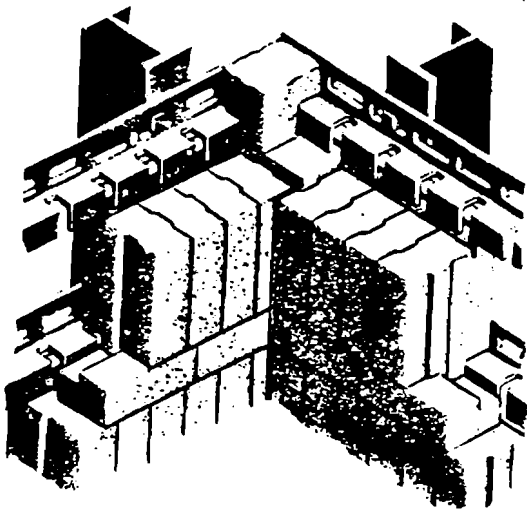
## Castable Construction

For petroleum refining furnaces and in some cement applications, Bigelow-Liptak has developed a smooth monolithic wall of refractory castable. This wall is designed to do two things: contain heat and resist the extraordinary abrasion prevalent in these installations.

In this field, B-L alone provides complete engineering, proven materials, plus erection service.



# The Bigelow 7-inch Single Wall



Front view—showing the completed wall.

Side view—showing the refractory thickness. Note the husky supporting castings.

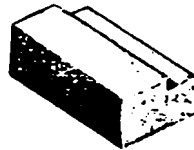


This wall is designed for rugged duty where space does not permit the use of thicker materials. It can be air cooled to contain high temperatures. Where moderate temperatures are to be met, the wall can be insulated to reduce radiation losses.

It is completely unit-suspended. Refractories are set like books on shelves and filler tile are placed between the rows. All joints are completely and effectively offset and cumulative loading and expansion is eliminated. Thin joints of special plastic fire clay seal each tile individually in place and allow for expansion and contraction.

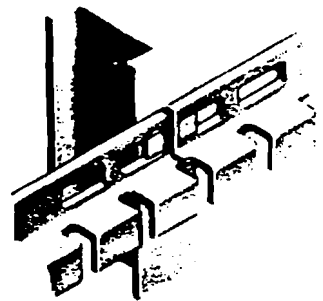


Service tile

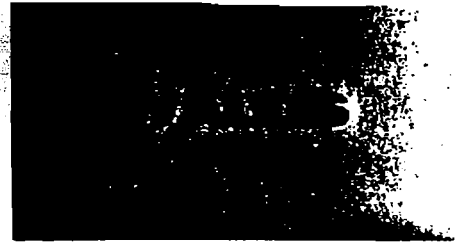


Filler tile

Refractory support  
Cast iron bracket support



# The Bigelow 9-inch Double Wall

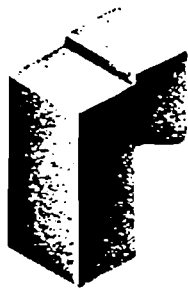


This wall is designed for heavy duty work. Its unique design incorporates a super duty facing tile and a holding tile of first quality fire brick. As a result, there is nine inches of refractory—40% of which is designed for high heat service.

The facing tile is exposed to deleterious gases and flame impingement and is further designed to stand up under erosion and spalling conditions.

When extremely high temperatures are encountered the wall is air cooled; however, when medium to high temperatures are met, the wall is insulated with special B-L insulating materials. Tile offsets effectively seal against air leakage. The wall is also available in an 11-inch thickness.

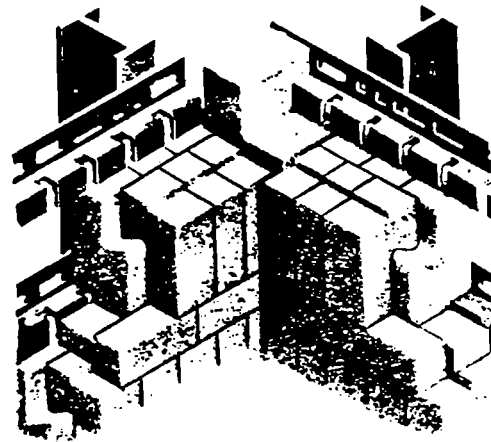
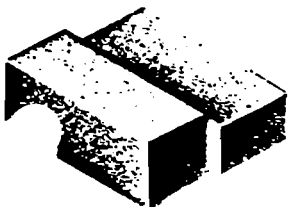
Service tile



Holding tile



Filler tile

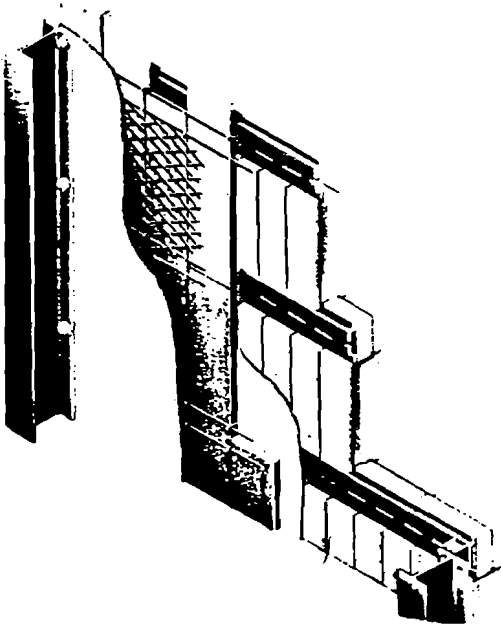


Front view—showing complete wall.

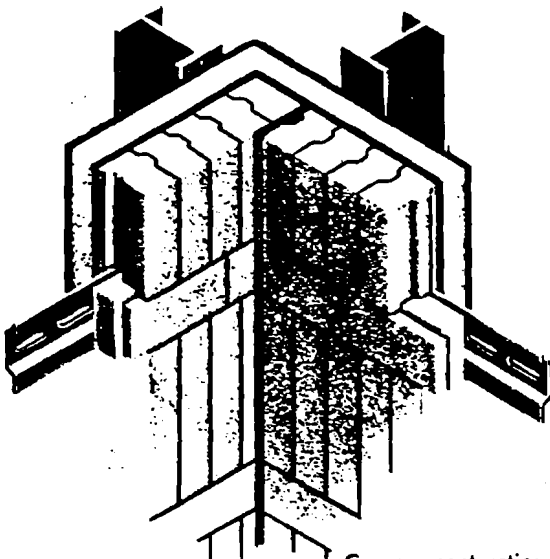
Side view—showing the refractory thickness. Note the unique design of wall tile.



# The Bigelow 4½-inch, 3-inch Single Wall



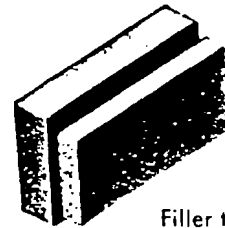
Exterior view—showing the cutaway of the wall and illustrating the plastic-block-plastic insulation seals.



Corner construction

The Bigelow-Liptak thin wall is designed for moderate and low temperature applications and where operating conditions are not too severe. The thinner (4½ or 3 inch) refractories are backed by a three-ply insulation seal to cut radiation and conduction losses and to block air infiltration.

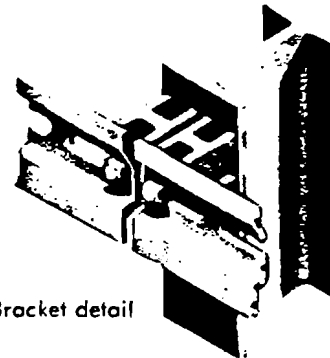
Like all B-L wall designs, the thin wall can be curved or sloped and eliminates any possibility of cumulative loading or expansion thrusts.



Filler tile



Main tile



Bracket detail

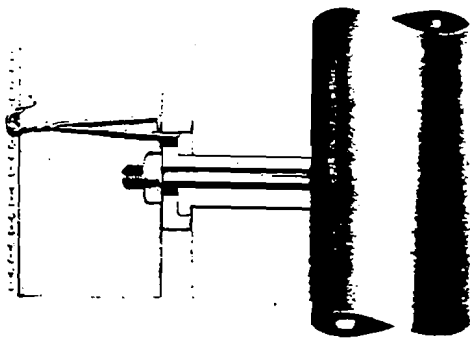
# The Bigelow Tube-Supported Wall



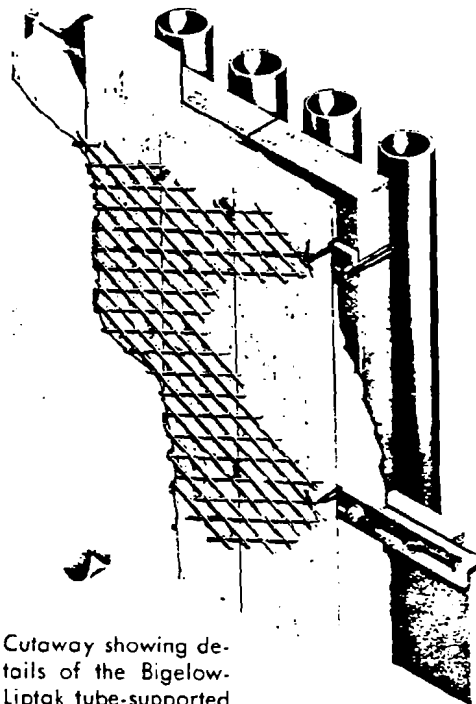
The Bigelow-Liptak tube-supported wall answers the trend toward closely-spaced water tubes and the elimination of special structural supports in industrial boilers. This design eliminates furnace enclosure structural steel. Instead, retainers are welded, or otherwise fastened to the tubes after the boiler skeleton has been erected. Refractory supporting castings are fastened to the retainers. After the refractories are in place, three layers of insulation—plastic, block and plastic—complete the job.

Steel casings are eliminated in this type of construction. Instead Texad\* (see page 14) is used to finish off the enclosure which assures complete air tightness. Result: a saving of steel, both structural and plate.

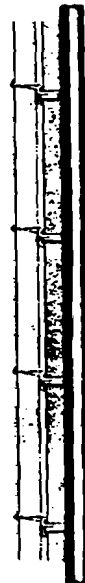
\*REGISTERED U. S. PATENT OFFICE



Detail showing how the studs are welded to the boiler tubes.

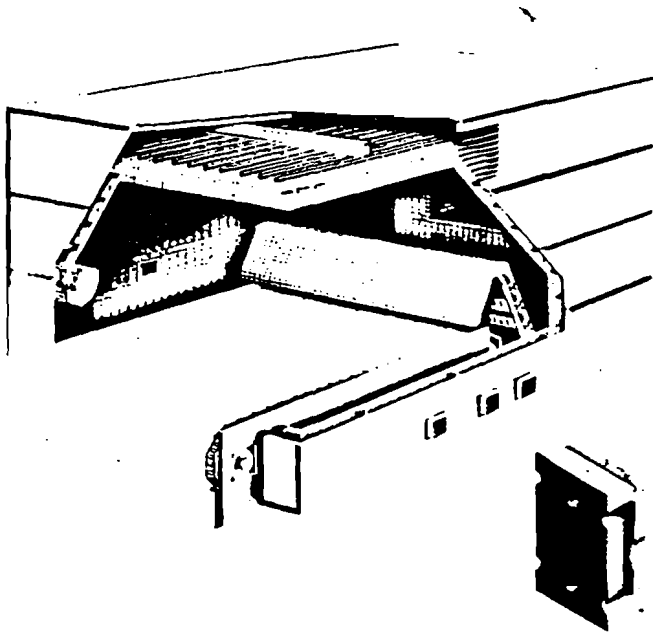


Cutaway showing details of the Bigelow-Liptak tube-supported wall.



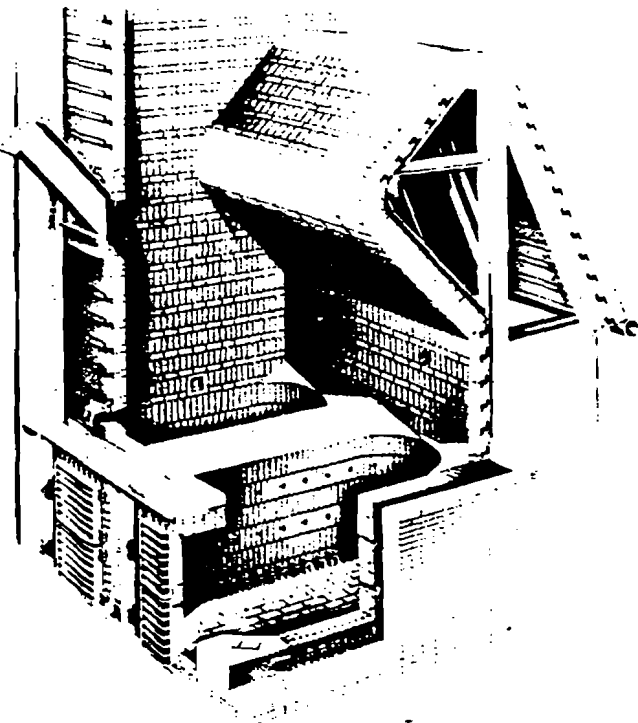
Note the thin refractories used in the easy-to-erect enclosure.





## **Dryer Furnaces**

Bigelow-Liptak dryer furnaces supply heat for drying coal, lumber, chemicals, foods, or any other product which has a high moisture content. Actually, the design of this enclosure is a modification of the standard B-L thin wall. Tempering air enters the exterior furnace casing through louvers and cools the backs of the refractories. As the air passes through its channel, it is preheated and drawn into the furnace through special air inlet tile. As a result, the gases are brought below the refractory survival point and are gradually reduced to the right outlet temperature. This method tends to mix the air with hot furnace gases reducing them to required temperatures with practically no stratification.



## **Moist Fuel Cells**

Another application of B-L designed unit-suspended walls and arches is found in furnaces where material with a high moisture content is to be burned.

Although designed originally for use in cane sugar countries for the burning of bagasse—spent raw sugar cane—these furnaces proved so successful that their use has spread to other fields such as the burning of bark and wet wood refuse.

The patented B-L moist fuel design incorporates special interlocking type tuyere tile and special base castings. Pre-heated air is forced through the tuyeres to promote rapid combustion of the wet fuel.

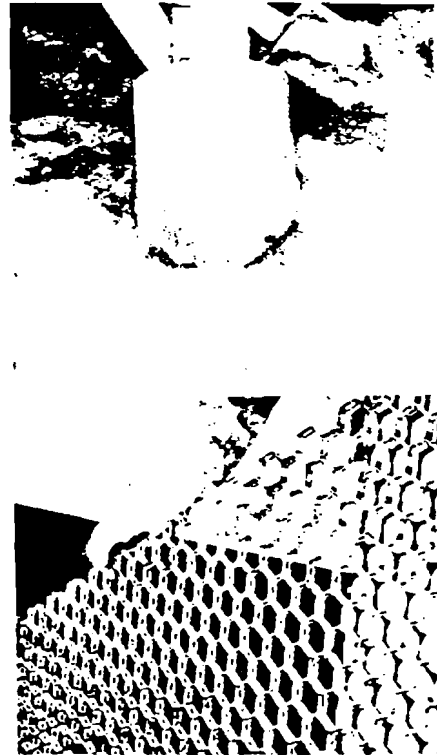
Through the years many B-L moist fuel cell furnaces have been installed in various parts of the world. It is significant that their records show that remarkably little maintenance has been required to keep them in operation.

*Bigelow-Liptak has two construction methods particularly suited for refining and petrochemical installations.*



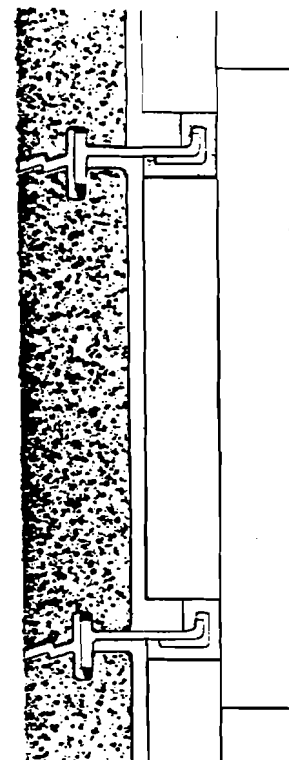
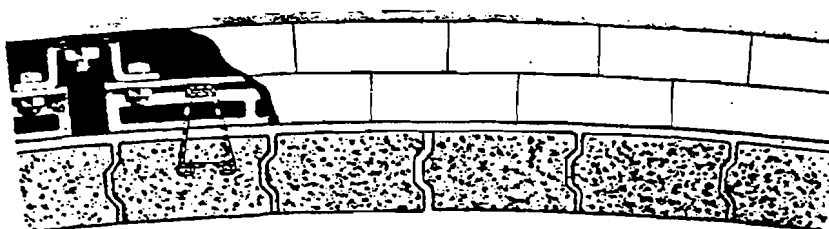
## **Castable Construction for Refineries**

The latest development incorporates two castable refractories which have insulating and abrasion-resistant qualities. Together, they form a smooth monolithic wall adaptable to any furnace or vessel contour. Application is simple when properly supervised. Studs are welded to the inside of a steel shell, and after a layer of insulating refractory has been air-gunned onto the shell, a retaining mesh is welded to the studs. The abrasion-resistant refractory fills the mesh and finishes off the job. Installations of this type are particularly adaptable to catalytic regenerators, catalytic reactors, cyclones, stacks and similar refinery equipment where castable can be applied.



## **Suspended Construction for Refineries**

The old proven stand-by for refinery installations, however, is suspended construction. As with installations in other fields, each tile is individually hung from a supporting casting, and can be removed without disturbing adjacent areas. Suspended enclosures offer the inherent features of low maintenance and high efficiency plus easy replaceability of small damaged areas without disturbing adjacent sections. Parts can be pre-fabricated leading to minimized erection costs. Frequently, both castable and suspended construction are combined in the same furnace for maximum efficiency and economy.



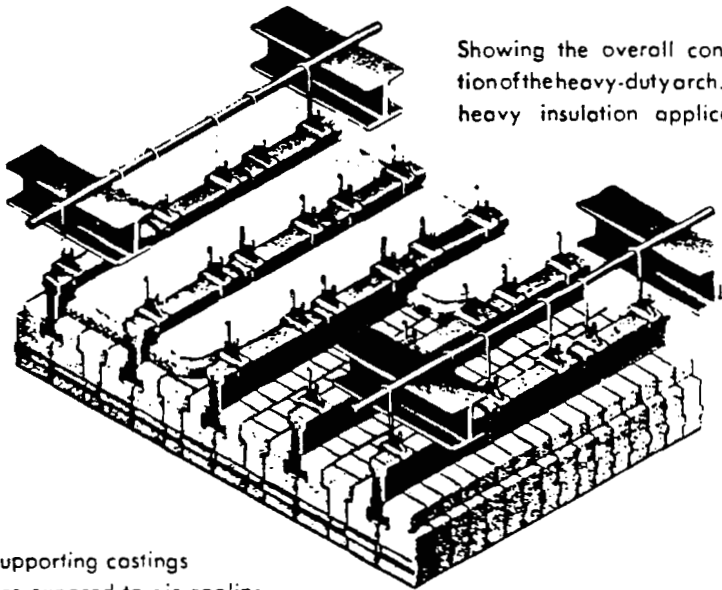
9 EXHIBIT

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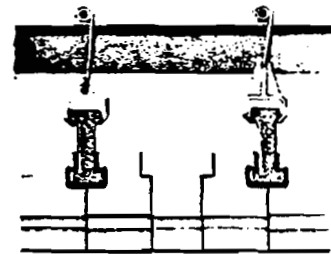
# The BIGELOW Double Arch

The Bigelow double suspended arch is used for high temperature applications requiring heavy insulation. The exposed tile is usually made in the quality best suited for the furnace conditions encountered. It is supported by a husky beam tile of first quality refractory which is held by castings and rods. In order to provide for easy service and repair, filler "T" tile are spaced between the service tile units. After a row of the filler tile is removed there is easy access to the service tile.

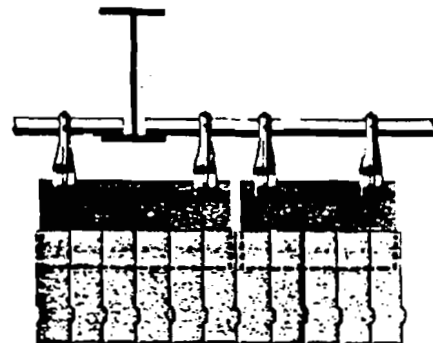
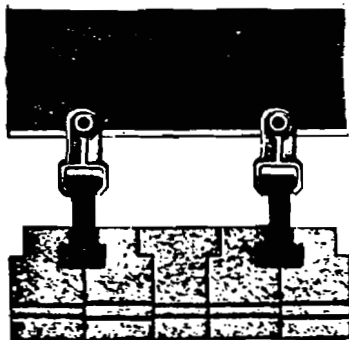
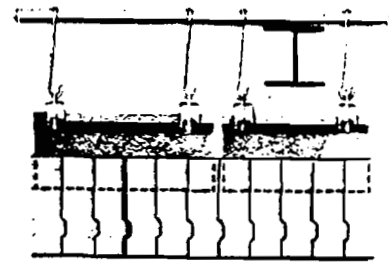


Showing the overall construction of the heavy-duty arch. Note heavy insulation application.

Supporting castings are exposed to air cooling.

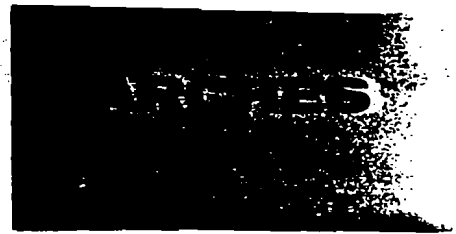


Close up views of the supporting devices.

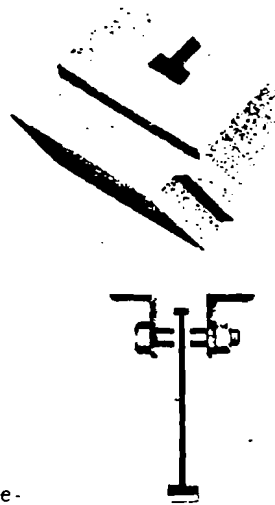
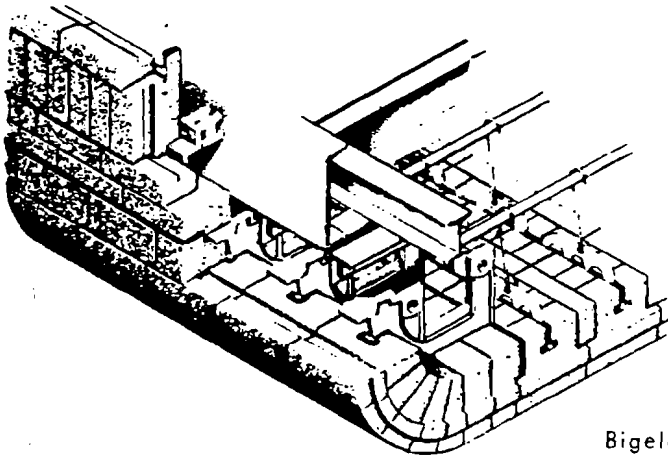


Alternate designs for use where head room is limited.

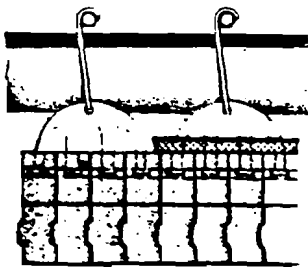
# The BIGELOW Single Arch



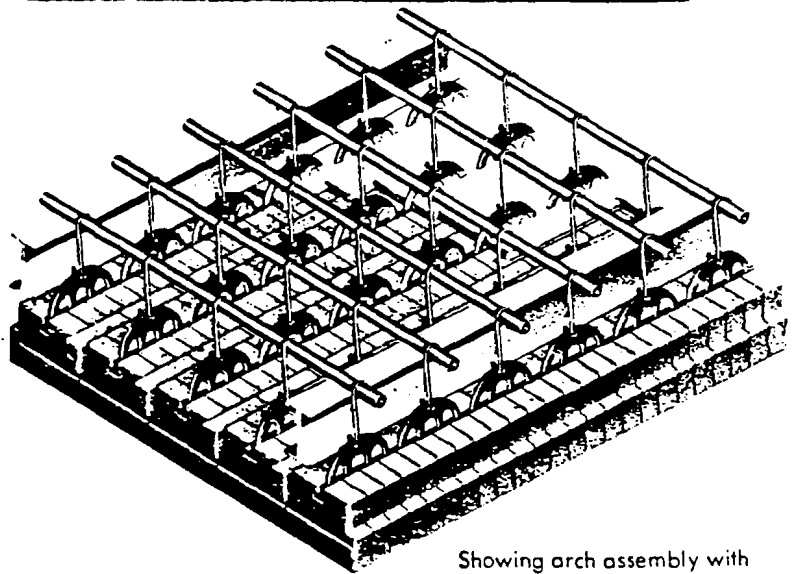
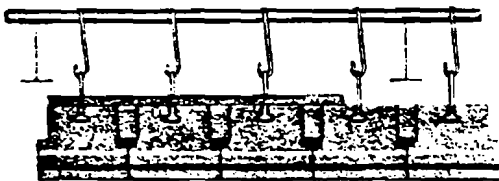
The Bigelow single arch features a pendulum-type suspension which permits the tile to swing freely in all directions. Each group of tile is suspended by means of a cast iron hanger. Hangers are engaged by a steel hook carried on a pipe over the roof supports. This arch design can be horizontal or sloped. The nose castings permit movement of the complete radial unit.



Bigelow-Liptak's free-floating arch nose design.



Close up views of the supporting methods.

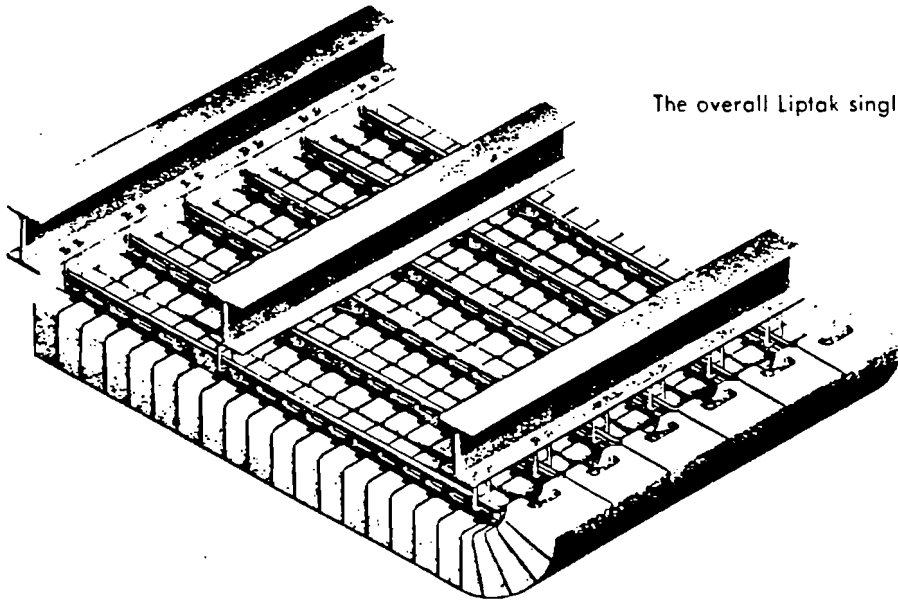


Showing arch assembly with insulation partly in place.

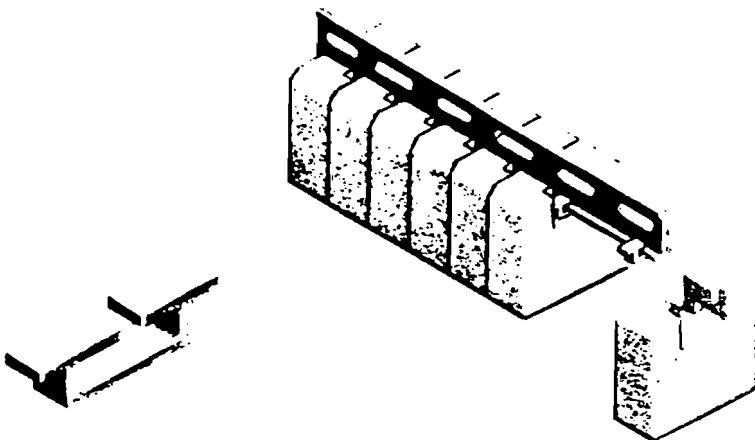
## The LIPTAK Single Arch

The Liptak single suspended arch is ideally suited for arch designs where slopes and drop noses are required.

The holding lugs of the arch tile are designed so that a sliding casting can be inserted in each tile from above or below, when erecting or repairing the arch. Since the tile faces are not grooved, repairs can be made easily without completely cooling down the furnace. Arch design provides for a minimum amount of head room.



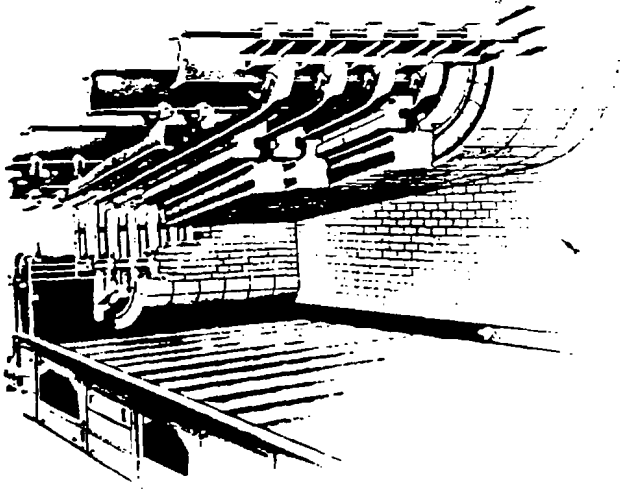
The overall Liptak single arch design.



Tile is supported on individual clips which slide on the rail castings and permit individual repairs. Note how any one may be removed without disturbing other tile.

EXHIBIT A ASC000023

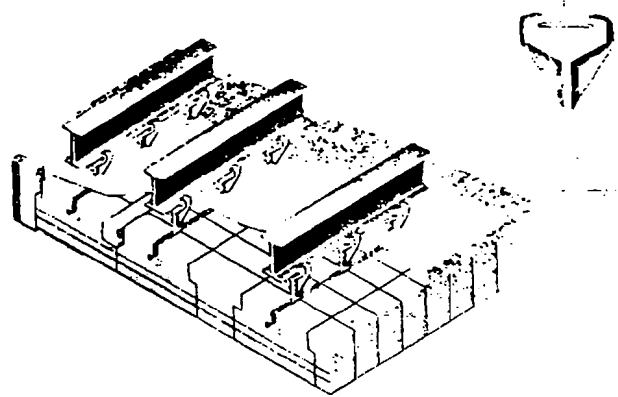
## The LIPTAK Double Arch



The Liptak double arch consists of a service tile supported by a holding tile which is in turn supported by rail castings. All tile joints are offset to minimize air leakage.

## Incinerator Arch

The incinerator arch is designed for rugged service and uses a husky casting support that permits maximum insulation of the top of the arch. Special filler "T" tile are used to facilitate repairs whenever required. The free floating nose construction (see page 11) is used around fuel chutes. Details of this construction have been adapted from other B-L designs but are particularly applicable to large incinerators.

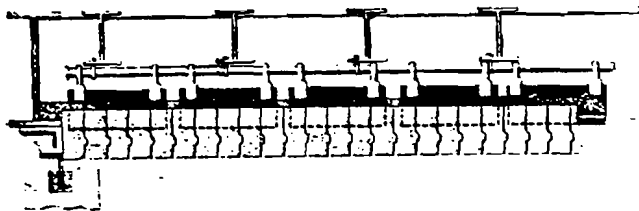
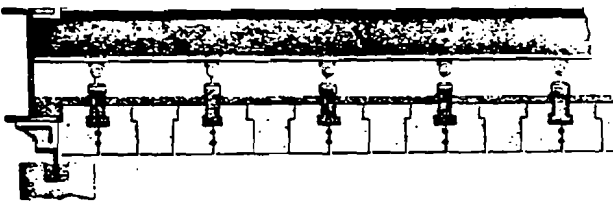


## Soaking Pit Cover

The Bigelow double suspended arch is ideally suited for the severe service encountered in soaking pit roofs.

The husky beam type holding tile supports the service tile.

Insulation can be applied reasonably heavy over the service tile because the holding tile are made of refractories too. Supporting castings are located above the insulation and are not subject to excess heat. It will be noted that this type construction, like many B-L designs, has individual hanger castings which do not span the joints between tile. This eliminates burnouts caused by hot escaping gases from furnaces under plus pressure. Special short units of base castings are framed around the arch. Base castings also hold the special angle seal castings. All tile are small to resist thermal and mechanical spalling.



# TEXAD\* Casing

TEXAD\* was developed by Bigelow-Liptak to answer a definite need for an easy to apply, weatherproof finish for boilers and other industrial furnaces. It is a woven textile of canvas, asbestos, fiber glass, or other synthetic non-flammable material, impregnated with a heat-resistant plastic synthetic resin emulsion. Texad is water and weather-proof—can be painted any color or left white. It cuts costs, eliminating expensive steel plate. It helps make settings air tight—something that non-flexible steel plate cannot do.

## How it is applied



The insulator is coating one side of 40-inch wide strip of textile with the special B-L adhesive—a plasticized synthetic emulsion.



As the insulator brush-coats the textile, he folds the material into 12-inch pleats—a convenient size for application to the furnace wall.



The textile is stapled temporarily to the enclosure top. It drops loosely in place and the insulator lines up the canvas before trimming.



Wrinkles are smoothed out with a trowel. The application is noticeably similar to hanging wallpaper.



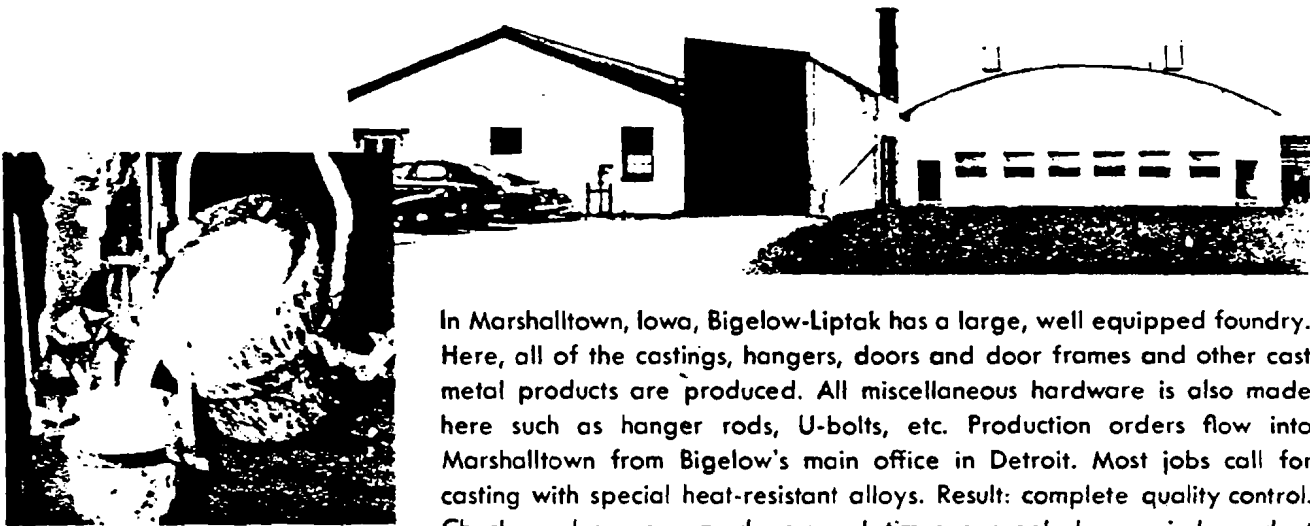
The textile is trimmed approximately one-quarter of an inch beyond the edges of the flanges of the supporting columns. The edges then are tucked under the steel.



This is the last stage where the insulator gives the textile a final brush coat of adhesive. The job can be painted if desired.

EXHIBIT **A**

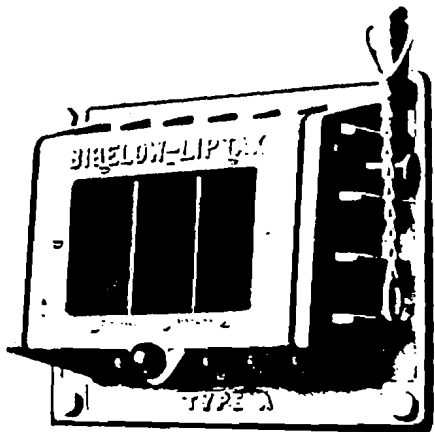
## Castings



In Marshalltown, Iowa, Bigelow-Liptak has a large, well equipped foundry. Here, all of the castings, hangers, doors and door frames and other cast metal products are produced. All miscellaneous hardware is also made here such as hanger rods, U-bolts, etc. Production orders flow into Marshalltown from Bigelow's main office in Detroit. Most jobs call for casting with special heat-resistant alloys. Result: complete quality control. Check analyses are made several times a week by an independent laboratory. B-L's warehouse carries a large stock of standard castings for emergency order.

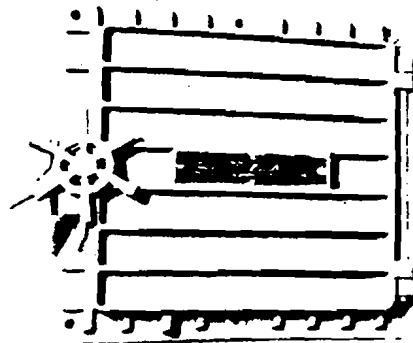
### DOORS—Observation

The Bigelow-Liptak observation door has been designed for rugged, heavy duty work. Its husky, cast frame has a special rib design for strength and to help radiate heat. The actual opening, measuring 4" x 6", is covered with blue heat-resistant glass for safety and visibility. A shutter on the hot side of the furnace guards against explosion hazards and "puffs".



### DOORS—Access

Furnaces are designed with a door to be used when the furnace is shut down for repair or cleaning. Bigelow-Liptak has produced a refractory-lined access door with sufficient space to offer easy entrance to the furnace. The door casing is of heavy heat-resistant cast iron—ribbed for strength, rigidity, and air cooling. A strong wheel-type lock keeps the door secure during furnace operation.





**Block Insulation  
BL-19**

an all-purpose mineral wool material for temperatures to 1900°F.

BL-19 is a block insulation manufactured from a high-grade mineral wool material. It is recommended for temperatures to 1900°F. and remains completely stable within that limit. Complete insulation is made possible by small, interlocking fibers sealing millions of tiny air cells. Thermal conductivity is very low. Block is tough enough to withstand normal handling and usage, yet is extremely light and easy to cut. Hard surface available on special order.

**Insulating Cement  
C-18**

an all-purpose mineral wool plastic for temperatures to 1800°F.

C-18 is an insulating cement composed of mineral wool, long-fiber asbestos, and an adhesive binder. While it does not trowel to a hard finish, many installations are in service where C-18 comprises the sole exterior coat. It has a low thermal conductivity rating and is easy to work.

**Finishing Cement  
C-10**

a hard white finish coating for temperatures to 1000° F.

C-10 is a finishing cement composed of asbestos, clay and white Portland cement. It provides a smooth, dense, white finish coat for all types of insulation. It is effective within a range of 70° F. to 1000° F. and is non-reclaimable.

**Insulating-  
Finishing Cement  
FC-11**

a smooth-finish insulation for temperatures to 1000°F.

FC-11 is a smooth-finish insulating and finishing cement which is applied to BL-19 or BL-20. It combines the insulating qualities of C-18, yet trowels as smooth as C-10 finishing cement. As a result only a one layer application is needed for a complete installation.

**Insulating Wool  
W-12**

a mineral wool insulating material for temperatures to 1200° F.

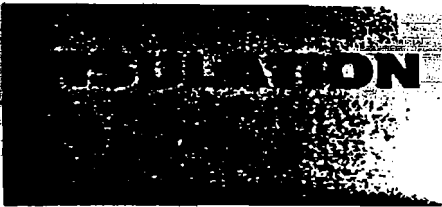
W-12 is a high-temperature mineral wool insulation available in both fibrous and granulated forms. It is used wherever a loose "fill" type insulation is needed.

**Insulating Cement  
RC-23**

a semi-refractory plastic insulation for temperatures to 2300° F.

RC-23 insulating cement is a plastic-type material with the ability to withstand a full range of continuous temperatures to 2300° F. It is made of fire clay, asbestos, mineral wool, and diatomaceous earth. May be applied where surface temperatures are too high for BL-19 or C-18, in the thickness required to permit a junction temperature suitable for BL-19 or C-18. It can be exposed to flame if protected by a wash coat of Lumnite cement.

# Technical Data



	BL-19	C-18	C-10	FC-11	W-12	RC-23
<b>Temperature Limit</b>	1900° F	1800° F	1000° F	1000° F	1200° F	2300° F
<b>Conductivity</b>	0.90 at 1000°F; 1.46 at 1200°F	0.77 at 500°F; 0.81 at 700°F	Higher than C-18—But is only finish coat	0.62 at 300°F; 0.96 at 700°F	0.45 at 400°F; 0.61 at 600°F	2.38 at 800°F; 2.795 at 1200°F
<b>Shrinkage</b>	.03% at 1200°F; .084% at 1740°F	15% in thickness only	7% in thickness only	Nil		10% in thickness only
<b>Water Absorption</b>	Enough to aid drying finish		Absorbs but does not disintegrate	Can be washed down	Nil	
<b>Density lbs/Bd ft</b>	1.67	1.82	3.8	2.91	0.6 loose	4.45
<b>Corrosion</b>	Nil	Nil	Nil	None for steel; not used for non-ferrous metals	Nil	Nil
<b>Adhesive</b>		Complete bond	Adheres well	Adheres well		to refractory

EXHIBIT   A  

ASC000028



## **Bigelow-Liptak Research**

Bigelow-Liptak research covers both familiar and out-of-the ordinary applications. Frequently supervisors, engineers, sales personnel and draftsmen are brought into special schools for discussion of unusual problems. One school recently taught Bigelow-Liptak personnel erection techniques for applications in the refining field. Trained technicians explained and demonstrated every aspect of job construction. Errors were made on purpose so that the supervisors would know what to look for as potential "hot spots" and trouble areas in a finished furnace. Parallels were drawn to indicate standard Bigelow-Liptak practice in the field.

Actual laboratories in Detroit, Michigan; Marshalltown, Iowa; and Mexico, Missouri thoroughly explore new ideas before they are tested in the field. That's why Bigelow quality control is so high.

## **Custom Engineering**

Every Bigelow-Liptak job is custom engineered. Each is considered as a separate problem and the resulting enclosure is designed to produce long-lasting dependability and economy. B-L design engineers and draftsmen are men who have had years of training in thermodynamics and refractory application.

In addition to intelligent engineering, B-L supplies all the material necessary to complete the job. Tile are made to Bigelow's specifications in leading refractory plants throughout the world. Castings are produced in Bigelow's modern foundry. All of the insulation and Texad<sup>®</sup> casing materials are supplied from the company's line of high temperature products.

In many cases, B-L engineers actually supervise construction right in the field. You will find them scattered throughout the world. Sometimes they are in Bahrein Islands in the Persian Gulf putting in a refinery installation. At other times they may be in West Virginia, in the United States, installing a coal dryer furnace. They could be in the Pacific Northwest working in lumber mills, or in lower California on big boiler jobs. You will find them in South America, the Philippines, Denmark—anywhere in the world.

Remember: if you are building any kind of a boiler, refinery heater or furnace, insist upon a separate enclosure. Bigelow-Liptak wants very much to work with you.



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# **BIGELOW-LIPTAK CORPORATION**

*Executive Offices:*

2550 W. Grand Boulevard

Detroit 8, Michigan

## **BIGELOW-LIPTAK EXPORT CORPORATION**

2550 W. Grand Boulevard

Detroit 8, Michigan

CABLE ADDRESS: "BITAK" DETROIT OR NEW YORK

*In Canada:*

**BIGELOW-LIPTAK OF CANADA, LTD.**

1 Willingdon Blvd. (Kingsway)  
Toronto 18, Ontario

*In Great Britain:*

**LIPTAK FURNACE ARCHES, LTD.**

68 Victoria Street  
London, S.W. 1

### **Domestic Sales Offices:**

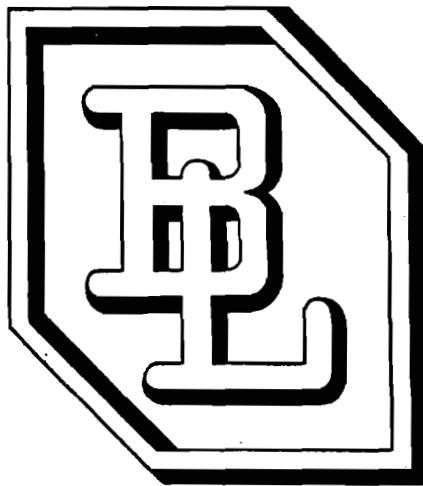
Atlanta • Boston • Buffalo • Chicago • Cleveland • Denver • Detroit • Houston • Kansas City, Mo. • Los Angeles • Minneapolis • New York • Philadelphia • Pittsburgh  
Portland, Ore. • St. Louis • St. Paul • Salt Lake City • San Francisco • Seattle • Tulsa

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Tokyo, Japan • Mexico, D. F. • Lima, Peru • San Juan, Puerto Rico • Port-of-Spain, Trinidad • Montevideo, Uruguay • Caracas, Venezuela • Manila, P. I. • Hamburg, Germany • Milan, Italy • Paris, France • Brussels, Belgium.

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EXHIBIT   A   ASC000030



\*REGISTERED U.S. PATENT OFFICE

EXHIBIT **A** ASC000031

# Description

FC-11 is a smooth-finish insulating and finishing cement which is applied to BL-17 or BL-20. It combines the insulating qualities of C-18, yet trowels as smooth as C-10 finishing cement. As a result only a one layer application is needed for a complete installation.

## Technical Data

Temperature Limit	To 1000° F.
Conductivity	At a mean temperature of 100° F., 0.51 BTU per sq. ft., per hr., per in., per °F. At a mean temperature of 300° F., 0.62 BTU per sq. ft., per hr., per in., per °F. At a mean temperature of 500° F., 0.73 BTU per sq. ft., per hr., per in., per °F. At a mean temperature of 700° F., 0.96 BTU per sq. ft., per hr., per in., per °F.
Shrinkage	Nil.
Water Resistance	After total submersion in water for 7 days, no change in cement properties. Can be washed down.
Density (6 to 5 water ratio)	2.91 lbs., per bd. ft.
Non-corrosive	Does not corrode steel surfaces. Do not apply to non-ferrous metals such as aluminum or copper.
Adhesive	Adheres well to any insulation surface.

### Application Data

Mix 50 lbs. of dry FC-11 with 7 to 7½ gallons of water. Do not mix more cement than can be used in 2 hours. FC-11 can be applied to cold surfaces (below 150° F.) to the regular thicknesses for finishing cements, i. e., ¼" to blanket, block, insulating cement, metal lath, or plain steel surfaces. Thicknesses of 1½" can be applied in one coat. Trowel to a smooth finish.

### Product Data

Bigelow-Liptak FC-11 finishing-insulating cement is shipped in 100 lb. multi-wall bags f.o.b. Joplin, Missouri. Minimum carload weight 40,000 lbs. Carload can be made up of more than one kind of insulation.

224.6 Litho in U.S.A.

An Insulation  
Product of

EXHIBIT **B** ASC0000632

## Description

C-18 is an insulating cement composed of mineral wool, long-fiber asbestos, and an adhesive binder. It is crack resistant, does not contain any Portland cement. While it does not trowel to a hard finish, many installations are in service where C-18 comprises the sole exterior coat. It has a low thermal conductivity rating and is easy to work.

## Technical Data

Temperature Limit	To 1800° F.
Conductivity and Heat Loss	See curves on inside pages.
Shrinkage	15%; in thickness only.
Density	1.8-2 lbs. per bd. ft. Coverage: 25-27½ bd. ft. per 50 lb. bag.
Rust Inhibitive	Special inhibitor prevents rust and corrosion of iron and steel.
Adhesive	Forms a complete bond to any clean surface. One test indicated that over 1200 lbs. per sq. ft. of "pull" was required to break bond between C-18 and a metal plate.
Plasticity	Forms an efficient, 1-piece insulating coating. Follows surface contours easily. No seams or joints.
Reclaimable	At temperatures to 1200° F., C-18 can be removed, remixed, and reapplied without loss of insulating properties.

An Insulation  
Product of

EXHIBIT

**B**

ASC000033

# Description

C-10 is a finishing cement composed of asbestos, clay and white Portland cement. It provides a smooth, dense, white finish coat for all types of insulation. It is effective within a range of 70° F. to 1000° F. and is non-reclaimable.

## Technical Data

Temperature Limit	To 1000° F.
Conductivity	Higher than C-18, but this material is used only as a finish coat about ¼ in. thick.
Shrinkage	7%, in thickness only.
Water Resistance	Will absorb water but does not disintegrate. Can be readily washed down.
Density	3.8 lbs. per bd. ft. Coverage: 105 sq. ft., ¼ in thick, per 100 lbs.
Adhesive	Adheres well to any insulation although not as tight a bond as C-18.
Durability	Dense, tough surface unaffected by acids.
Light Reflectiveness	White finish has light-reflective rating of over 60%.

### Application Data

Mix at a ratio of 16½ gals. of water to each 100 lb. bag of C-10. Use a short time after mixing; do not allow to set over night. Will set hydraulically in 6 hours. Trowel to a smooth finish. This cement should be used only as a finish coat, preferably about ¼ in. thick.

### Product Data

Bigelow-Liptak C-10 finishing cement is shipped in 100 lb. multi-wall bags f.o.b. Joplin, Missouri. Minimum carload weight, 40,000 lbs. Carload can be made up of more than one kind of insulation.

An Insulation  
Product of

2246 Litho in U.S.A.

EXHIBIT **B** AS0000034



## Description

RC-23 insulating cement is a plastic-type material with the ability to withstand a full range of continuous temperatures to 2300° F. It is made of fire clay, asbestos, mineral wool, and diatomaceous earth. May be applied where surface temperatures are too high for BL-17 or C-1S, in thickness required to permit junction temperature suitable for BL-17 or C-1S. Can be exposed to flame if protected by a wash coat of Lumnite cement.

## Technical Data

Temperature Limit	To 2300° F.
Conductivity	See curve on next page.
Shrinkage	10%, in thickness only.
Density	4.45 lb. per bd. ft. Coverage: 22½ bd. ft. per 100 lb.
Adhesive	Adheres to refractory.
Durability	Will not deteriorate.

### Application Data

Mix five gals. of water to each 100 lb. bag of RC-23. Trowel on cold surface in coats not exceeding 1 in. thickness.

### Product Data

Bigelow-Liptak RC-23 insulating cement is packed in 100 lb. multi-wall paper bags f.o.b. Joplin, Missouri. Minimum carload weight, 40,000 lbs. Carloads can be made up of more than one kind of insulation.

An Insulation  
Product of

EXHIBIT

**B**

AS6000035

## Description

BC is a heavy, semi-viscous, plastic-type coating composed of asbestos fibers, asphaltum, and special non-drying oils. It is particularly useful as a solid masonry boiler wall coating for reducing air infiltration. This material remains more elastic than WP. Adheres to metal, ceramic, or insulation surfaces.

## Technical Data

Temperature Limit	To 400° F.
Shrinkage (Surface)	Nil.
Density	10 lbs. per gal. Coverage: 13 sq. ft. per gal., 1/8 in. thick.
Corrosion	Protects metal from rust and corrosion. Acid and alkali resistant.
Adhesive	Forms tight bond to refractory walls with slight penetration and is sufficiently resilient to maintain a tight seal even though additional cracking occurs in service.
Appearance	Grainy; semi-glossy. Available in black, tile red and gray. Cannot be painted.

### Application Data

Apply BC 1/8 in. thick with trowel. Be certain to cover all contours and joints. (If BC sticks to trowel, dip face of trowel in naphtha or kerosene.) BC is shipped ready to use, do not thin.

### Product Data

Bigelow-Liptak BC boiler wall coating is packed in 1, 5, 16, 32, and 53-gal. drums, f.o.b. Joplin, Missouri. Minimum carload weight, 40,000 lbs. Carload can be made up of more than one kind of insulating material.

An Insulation  
Product of

BIGELOW LIPTAK CORPORATION

EXHIBIT **B** AS0000036

# Description

Protective coating WP is a bituminous base product made of asbestos fiber, emulsified asphalt, and Bentonite clay. It prevents air infiltration through insulation and safeguards against weather. It is a tough, fire-resistant sheathing that sheds water, resists abrasion and is not easily punctured. It is particularly suited for oil refineries, out-door boilers, marine equipment — wherever installations are exposed. WP also provides a water-repellent coating for indoor furnaces. It will not stick to metal.

## Technical Data

Temperature Limit	To 300° F.
Fire Resistant	Will not burn at temperatures as high as 450° F.
Shrinkage	Approximately 50%, in thickness only.
Water Resistance	Sheds water, ideal for weatherproofing.
Density	Approximately 3 lbs. per bd. ft. when dried. Coverage: 50 sq. ft., ¼ in. thick, applied (drying to approximately ⅛ in. thick) per 100 lbs.
Strength	Forms tenacious bond.
Appearance	Dries to a smooth, rich black. Can be painted if desired.

### Application Data

Score surface if possible before applying. Be sure to fill all holes in the insulation with C-18 insulating cement. WP should be troweled on dry surfaces about ¼ in. thick, dries about ⅛ in. thick. Reinforce with 1 in. wire poultry netting where necessary. Stretch mesh tightly and fasten securely at intervals of not more than 12 in. in all directions.

### Product Data

Bigelow-Liptak protective coating is available in two grades—for summer (for temperatures above 40° F.) or winter use. Packed in containers weighing 50, 150, 300 and 500 lbs. net. Shipped f.o.b. Joplin, Missouri. Minimum carload weight, 40,000 lbs. Carloads can be made up of more than one kind of insulation.

An Insulation  
Product of

EXHIBIT

**B**

AS0000037

LYNCH, GILARDI & GRUMMER

A PROFESSIONAL CORPORATION

ATTORNEYS AT LAW

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MAUREEN E. MCTAGUE  
MARGARET B. LUCEY  
REGINA J. MCLENDON  
GRETCHEN O. NADY  
DAVID S. BLOCH

OF COUNSEL  
SEYMOUR FARBER

November 3, 1997

Harry Wartnick, Esq.  
Wartnick, Chaber et al.  
101 California Suite 2200  
San Francisco, California 94111

Re: **In Re: Asbestos Litigation**  
Our Client: **A.P. GREEN SERVICES**

RECEIVED  
NOV 05 1997  
WARTNICK LAW FIRM

Dear Mr. Wartnick:

Enclosed is a true and correct copy of the **Corporate Verification to the Verified Responses of A.P. Green Services, Inc., to Plaintiffs' Standard General Order 29 Interrogatories to Defendants** signed by A.P. Green Services Corporate Secretary Michael Cooney. Because there are other interested parties, we have retained the original for our files.

Very truly yours,

  
John J. Mifsud

JJM

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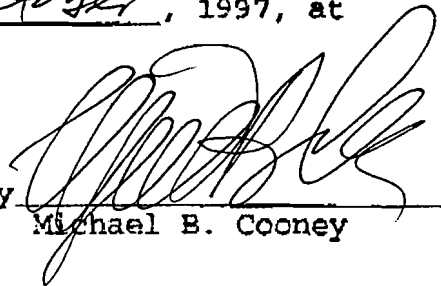
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CORPORATE VERIFICATION

I, Michael B. Cooney, declare:

I am an officer of A.P. GREEN SERVICES, INC., a corporation and a defendant sued in the above-captioned matter. I am authorized to make this verification for and on behalf of said corporation. I have read the foregoing VERIFIED RESPONSES OF A.P. GREEN SERVICES, INC., TO PLAINTIFFS' STANDARD GENERAL ORDER 29 INTERROGATORIES TO DEFENDANTS, and am informed and believe that the same is true and correct, and on that basis allege that the matters stated therein are true.

I declare under penalty of perjury of the laws of the state of California that the foregoing is true and correct. Executed this 17<sup>th</sup> of October, 1997, at Mexico, Missouri.

By   
Michael B. Cooney

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PROOF OF SERVICE BY MAIL

I, Sheila M. Horowitz, declare:

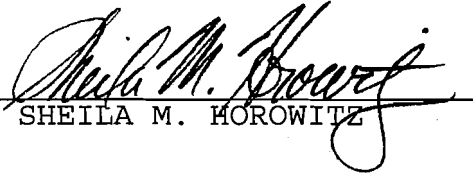
I am over the age of eighteen (18) years, residing or employed in the County of San Francisco, and not a party to the within action; my business address is Lynch, Loofbourrow, Helmenstine, Gilardi & Grummer, 50 Francisco Street, Suite 400, San Francisco, California 94133.

On November 3, 1997, I served the within **CORPORATE VERIFICATION TO THE VERIFIED RESPONSES OF A.P. GREEN SERVICES, INC., TO PLAINTIFFS' STANDARD GENERAL ORDER 29 INTERROGATORIES TO DEFENDANTS** by placing it in an envelope addressed as set forth below, and placing it, following ordinary business practices, for deposit with the United States Postal Service at my place of business as set forth above. I am readily familiar with this office's practice for collection and processing of correspondence for mailing within the United States Postal Service. In the ordinary course of business, such correspondence would be deposited with the United States Postal Service that same day.

PLEASE SEE ATTACHED LIST

I declare under penalty of perjury that the foregoing is true and correct.

Executed on November 3, 1997, at San Francisco, California.

By   
SHEILA M. HOROWITZ

- 1 Berry & Berry
- 2 Station D
- 3 P.O. Box 70250
- 4 Oakland, CA 94612-0250
  
- 5 Brayton, Gisvold & Harley
- 6 999 Grant Avenue
- 7 P.O. Box 2109
- 8 Novato, CA 94948
  
- 9 Wartnick, Shaber, Harowitz, et al.
- 10 101 California Street
- 11 26th Flr.
- 12 San Francisco, CA 94111

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Duane Grummer, Esq. (State Bar #59445)  
Michael P. O'Bresly, Esq. (State Bar #165512)  
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Telephone: (415) 397-2800  
Facsimile: (415) 397-0937

RECEIVED  
MAR 19 1996

Attorneys for Defendant,  
**A.P. GREEN SERVICES, INC.**  
f/k/a **BIGELOW-LIPTAK CORPORATION**

WATKINS LAW FIRM

ENTERED MAR 19 1996

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA  
IN AND FOR THE COUNTY OF SAN FRANCISCO

JAMES B. DROAST, et ux.	)	No. 970631
	)	
Plaintiffs,	)	<b>RESPONSES TO PLAINTIFF'S</b>
	)	<b>SPECIAL INTERROGATORIES</b>
vs.	)	
	)	
RAYBESTOS-MANHATTAN et al.,	)	
	)	
Defendants.	)	
_____	)	

PROPOUNDING PARTY: Plaintiff, JAMES B. DROAST  
RESPONDING PARTY: Defendant, A. P. GREEN SERVICES, INC.  
SET NO. ONE (as directed to all defendants)

GENERAL OBJECTIONS

1. A. P. GREEN SERVICES, INC. (formerly named BIGELOW-LIPTAK CORP. and hereinafter referred to as "BIGELOW-LIPTAK") objects to the plaintiff's serving this set of interrogatories on "defendants listed on Exhibit A." CCP Sec. 2030 requires that a set of interrogatories identify in the first paragraph the party to which the interrogatories are propounded, and this method of service fails to identify the responding party which sufficient notice. BIGELOW-LIPTAK makes the following responses for itself, and not on behalf

1 of any other party identified in Exhibit A.

2 2. BIGELOW-LIPTAK objects to each and every one of these  
3 interrogatories as calling for information protected by the  
4 attorney-client communication privilege and the attorney work-  
5 product doctrine. To the extent that any information is provided in  
6 response to any of these interrogatories which may be covered by  
7 either of these privileges, such answer is wholly unintentional and  
8 shall not be construed as a waiver of these privileges to any  
9 extent.

10 3. This defendant objects to the plaintiff's definition of  
11 "asbestos-containing products" in interrogatory 1 as vague and  
12 ambiguous. The mineral asbestos contaminates the ambient atmosphere  
13 as well as all products to which the general population comes into  
14 contact. This defendant cannot determine the extent to which any  
15 product may contain "an amount of the mineral asbestos." This  
16 defendant did not manufacture products of any kind, asbestos-  
17 containing or not, and has no special knowledge regarding what  
18 products may or may not have been manufactured with asbestos as a  
19 constituent ingredient. In the absence of more specific definition  
20 of this term, this defendant can only respond with respect to  
21 products which are publicized by the Environmental Protection Agency  
22 as having contained asbestos, and listed in the Federal Register,  
23 Volume 55, No. 30, February 13, 1990, publicizing information from  
24 manufacturers of asbestos-containing products.

25 4. Defendant objects to the incorporation by reference of a  
26 list of 40 or more job sites, listed in interrogatory 1, into one or  
27 more of these questions. This incorporation by reference violates  
28 CCP §2030(c)(5), requiring that interrogatories not be compound, and

1 to be complete in and of themselves. Incorporation of a list of 40  
2 job sites transforms each interrogatory into an interrogatory with  
3 40 subparts, which causes this set of interrogatories to far exceed  
4 the 35 interrogatories which the plaintiff may propound as a matter  
5 of right without a supporting declaration for additional discovery.  
6 No declaration justifying the propounding of so many interrogatories  
7 has been attached.

8 5. Defendant further objects to requesting information  
9 pertaining to 7 job sites and two ships as overbroad, unduly  
10 burdensome and harassing.

11

12 RESPONSE TO INTERROGATORY NO. 1

13 Subject to the objection to the objection to the term  
14 "asbestos-containing product" set forth in the General Objections,  
15 defendant states: no.

16 RESPONSE TO INTERROGATORY NO. 2

17 Not applicable; see response to No. 1.

18 RESPONSE TO INTERROGATORY NO. 3

19 Not applicable.

20 RESPONSE TO INTERROGATORY NO. 4

21 Not applicable.

22 RESPONSE TO INTERROGATORY NO. 5

23 Not applicable.

24 RESPONSE TO INTERROGATORY NO. 6

25 Not applicable.

26 RESPONSE TO INTERROGATORY NO. 7

27 Not applicable.

28

1 RESPONSE TO INTERROGATORY NO. 8

2           Objection to the use of the term "asbestos-containing product"  
3 as set out in the General Objections.

4           Objection to the list of "employers" and "years of employment"  
5 as compound, in contravention of CCP §2030(c)(5).

6           Objection to this interrogatory as overbroad as to the use of  
7 the term "employers" and "years of employment". It is not  
8 contended in the plaintiff's interrogatory responses that Mr. Droast  
9 was exposed to asbestos at the accountancy positions as listed from  
10 1947 to 1993.

11           With respect to the employers and years 1940 to 1947, this  
12 defendant states, subject to the limiting objection as to the scope  
13 of the term "asbestos-containing product": no.

14 RESPONSE TO INTERROGATORY NO. 9

15           Objection to the use of the term "asbestos-containing product"  
16 as set out in the General Objections.

17           Objection to the term "jobsites" as compound, CCP §2030(c)(5).

18           With respect to the jobsites and years 1940 to 1947, this  
19 defendant states, subject to the limiting objection as to the scope  
20 of the term "asbestos-containing product": no.

21 RESPONSE TO INTERROGATORY NO. 10

22           Not applicable, see response to no. 9.

23 RESPONSE TO INTERROGATORY NO. 11

24           Not applicable, see response to no. 9.

25 RESPONSE TO INTERROGATORY NO. 12

26           Not applicable, see response to no. 9.

27 RESPONSE TO INTERROGATORY NO. 13

28           Not applicable, see response to No. 9.

1 RESPONSE TO INTERROGATORY NO. 14

2 Not applicable, see response to No. 9.

3 RESPONSE TO INTERROGATORY NO. 15

4 Not applicable, see response to No. 9

5 RESPONSE TO INTERROGATORY NO. 16

6 Objection to the use of the term "asbestos-containing product"  
7 as set out in the General Objections.

8 Objection to this interrogatory as compound (CCP 2030 (c) (5))  
9 as to the term "employers" and "years of employment".

10 Objection to this interrogatory as unduly burdensome and  
11 overbroad as to the years 1947 - 1993. It is not contended that the  
12 plaintiff was exposed during these years.

13 Objection to this interrogatory as calling for information more  
14 readily available to the plaintiff. Of any of the parties to this  
15 lawsuit, the plaintiff was most likely in the best position to  
16 observe the types of materials which were used in his vicinity on  
17 his jobsites.

18 Subject to the limitation of the objection to the term  
19 "asbestos containing product" this defendant states: No.

20 RESPONSE TO INTERROGATORY NO. 17

21 Inapplicable, see response to No. 16.

22 RESPONSE TO INTERROGATORY NO. 18

23 Inapplicable, see response to No. 16.

24 RESPONSE TO INTERROGATORY NO. 19

25 Inapplicable, see response to No. 16.

26 RESPONSE TO INTERROGATORY NO. 20

27 Inapplicable, see response to No. 16.

28 RESPONSE TO INTERROGATORY NO. 21

1 Inapplicable, see response to No. 16.

2 RESPONSE TO INTERROGATORY NO. 22

3 Objection to the use of the term "asbestos-containing product"  
4 as overbroad, see general objection.

5 Objection to this interrogatory as compound as to the use of  
6 the term "employers" and "years of employment", CCP Sec. 2030 (c)  
7 (5).

8 Objection to this interrogatory as unduly burdensome and  
9 overbroad as to the years 1947 to 1993, when it is not contended  
10 that the plaintiff suffered any significant exposure to asbestos.

11 Subject to the objection as to the scope of the term "asbestos  
12 containing products", this defendant states: No.

13 RESPONSE TO INTERROGATORY NO. 23

14 Inapplicable, see response to No. 22.

15 RESPONSE TO INTERROGATORY NO. 24

16 Inapplicable, see response to No. 22.

17 RESPONSE TO INTERROGATORY NO. 25

18 Inapplicable, see response to No. 22.

19 RESPONSE TO INTERROGATORY NO. 26

20 Not applicable, see response to No. 22.

21 RESPONSE TO INTERROGATORY NO. 27

22 Not applicable, see response to No. 22.

23 RESPONSE TO INTERROGATORY NO. 28

24 Objection to the use of the term "asbestos-containing product"  
25 as overbroad, see general objection.

26 Objection to this interrogatory as compound as to the use of  
27 the term "employers" and "years of employment", CCP Sec. 2030 (c)  
28 (5).

1           Objection to this interrogatory as unduly burdensome and  
2 overbroad as to the years 1947 to 1993, when it is not contended  
3 that the plaintiff suffered any significant exposure to asbestos.

4           Subject to the objection as to the scope of the term "asbestos  
5 containing products", this defendant states: No.

6 RESPONSE TO INTERROGATORY NO. 29

7           Not applicable, see response to No. 28.

8 RESPONSE TO INTERROGATORY NO. 30

9           Not applicable, see response to No. 28.

10 RESPONSE TO INTERROGATORY NO. 31

11           Not applicable, see response to No. 28.

12 RESPONSE TO INTERROGATORY NO. 32

13           Not applicable, see response to No. 28.

14 RESPONSE TO INTERROGATORY NO. 33

15           Not applicable, see response to No. 28.

16 RESPONSE TO INTERROGATORY NO. 34

17           Objection to the use of the term "asbestos-containing product"  
18 as overbroad, see general objection.

19           Objection to this interrogatory as compound as to the use of  
20 the term "employers" and "years of employment", CCP Sec. 2030 (c)  
21 (5).

22           Objection to this interrogatory as unduly burdensome and  
23 overbroad as to the years 1947 to 1993, when it is not contended  
24 that the plaintiff suffered any significant exposure to asbestos.

25           Subject to the objection as to the scope of the term "asbestos  
26 containing products", this defendant states: No.

27 RESPONSE TO INTERROGATORY NO. 35

28           Not applicable, see response to no. 34.

1 RESPONSE TO INTERROGATORY NO. 36

2 Not applicable, see response to No. 34.

3 RESPONSE TO INTERROGATORY NO. 37

4 Not applicable, see response to No. 34.

5 RESPONSE TO INTERROGATORY NO. 38

6 Not applicable, see response to No. 34.

7 RESPONSE TO INTERROGATORY NO. 39

8 Not applicable, see response to No. 34.

9 RESPONSE TO INTERROGATORY NO. 40

10 Objection to the phrase, "purchased by the jobsites" as vague,  
11 ambiguous, and unintelligible.

12 For this reasons, this defendant cannot respond to this  
13 interrogatory at this time.

14 Defendant has answered, supra, questions pertaining to the  
15 material purchased by the plaintiff's employers, which may be what  
16 this question relates to.

17 RESPONSE TO INTERROGATORY NO. 41

18 Not applicable, in that this defendant has stated that it  
19 cannot ascertain information at this time concerning what products  
20 were purchased or acquired "by plaintiff's job sites."

21 RESPONSE TO INTERROGATORY NO. 42

22 Objection to the term "source" as compound, vague and  
23 unintelligible.

24 Not applicable, in that this defendant has objected on the  
25 grounds that it cannot ascertain information at this time concerning  
26 what products were purchased or acquired "by plaintiff's job sites."

27 RESPONSE TO INTERROGATORY NO. 43

28 Not applicable, in that this defendant has stated that it can



1 ascertain no information at this time concerning what products were  
2 purchased or acquired "by plaintiff's job sites."

3 RESPONSE TO INTERROGATORY NO. 44

4 Not applicable, in that this defendant has objected on the  
5 grounds that it can ascertain no information at this time concerning  
6 what products were purchased or acquired "by plaintiff's job sites."

7 RESPONSE TO INTERROGATORY NO. 45

8 Not applicable, in that this defendant has objected on the  
9 grounds that it cannot ascertain information at this time concerning  
10 what products were purchased or acquired "by plaintiff's job sites."

11 RESPONSE TO INTERROGATORY NO. 46

12 Objection to the phrase "asbestos-containing products", for the  
13 reasons set out in the General objections.

14 Ambiguous and unintelligible as to the phrase, "to which  
15 plaintiff alleges he was exposed." Plaintiff does not set forth in  
16 this interrogatory those products to which he alleges he was  
17 exposed, CCP sec 2030 (c) (5). This is an impermissible "shotgun"  
18 interrogatory. (West Pico Furniture Co. v. Superior Court (1961) 56  
19 Cal. 2d 407.

20 RESPONSE TO INTERROGATORY NO. 47

21 See response to Interrogatory No. 46.

22 RESPONSE TO INTERROGATORY NO. 48

23 See response to Interrogatory No. 46.

24

25 RESPONSE TO INTERROGATORY NO. 49

26 See response to Interrogatory No. 46.

27 RESPONSE TO INTERROGATORY NO. 50

28 See response to Interrogatory No. 46.

1 RESPONSE TO INTERROGATORY NO. 51

2       Objection to the phrase asbestos containing products, as set  
3 out in the general objections.

4       Ambiguous and unintelligible as to the phrase, "to which  
5 plaintiff alleges he was exposed." Plaintiff does not set forth in  
6 this interrogatory those products to which he alleges he was  
7 exposed, CCP sec 2030 (c) (5). This is an impermissible "shotgun"  
8 interrogatory. (West Pico Furniture Co. v. Superior Court (1961) 56  
9 Cal. 2d 407.

10 RESPONSE TO INTERROGATORY NO. 52

11       See response to Interrogatory No. 51.

12 RESPONSE TO INTERROGATORY NO. 53

13       See response to Interrogatory No. 51.

14 RESPONSE TO INTERROGATORY NO. 54

15       See response to Interrogatory No. 51.

16 RESPONSE TO INTERROGATORY NO. 55:

17       See response to Interrogatory No. 51.

18 RESPONSE TO INTERROGATORY NO. 56:

19       Objection to this interrogatory as vague and unintelligible as  
20 to the phrase "at any jobsite at any location other than jobsites".

21       Objection that this interrogatory calls for information equally  
22 accessible to plaintiff at this time. (Alpine v. Superior Court  
23 (1968) 259 Cal. App. 2d 45.)

24       Without waiving these objections, this defendant states that  
25 its reasonable interpretation of this interrogatory is whether  
26 plaintiff was exposed to asbestos in a non-occupational setting.  
27 This defendant states that yes, plaintiff was so exposed to some  
28 extent, as is every other person exposed to some asbestos in the

1 "background" atmosphere.

2 To the extent that plaintiff was exposed to asbestos as a  
3 result of personal construction activities or automotive repairs,  
4 etc., plaintiff has equal or better access to this information.  
5 Defendant has no facts on this subject other than the plaintiff's  
6 desposition and answers to interrogatories.

7 RESPONSE TO INTERROGATORY NO. 57

8 Please see response to Interrogatory No. 56.

9 RESPONSE TO INTERROGATORY NO. 58

10 Please see response to Interrogatory No. 56.

11 RESPONSE TO INTERROGATORY NO. 59

12 Please see response to Interrogatory No. 56.

13 RESPONSE TO INTERROGATORY NO. 60

14 Please see response to Interrogatory No. 56.

15 RESPONSE TO INTERROGATORY NO. 61

16 Please see response to Interrogatory No. 56.

17 RESPONSE TO INTERROGATORY NO. 62

18 Please see response to Interrogatory No. 56.

19 RESPONSE TO INTERROGATORY NO. 63

20 Please see response to Interrogatory No. 56.

21 RESPONSE TO INTERROGATORY NO. 64

22 At this time, this defendant has not abandoned any affirmative  
23 defenses.

24 RESPONSE TO INTERROGATORY NO. 65

25 Objection to this interrogatory as vague and unintelligible as  
26 to the phrase, "base such contention."

27 Assuming that this refers to affirmative defenses which it  
28 contends to be still at issue, this defendant states that it does

1 not at this time have any facts upon which to support any of its  
2 affirmative defenses.

3 RESPONSE TO INTERROGATORY NO. 66

4 Please see response to Interrogatory No. 65.

5 RESPONSE TO INTERROGATORY NO. 67

6 Please see response to Interrogatory No. 65.

7 RESPONSE TO INTERROGATORY NO. 68

8 Objection the term "material allegation". This term is vague  
9 and unintelligible. Assuming that it refers to allegations in the  
10 complaint, there are no allegations specific to this defendant, such  
11 as allegations of where, when and how this defendant caused or  
12 contributed to alleged exposure to asbestos. The complaint consists  
13 entirely of vague and conclusory allegations generically drafted to  
14 apply to hundreds of defendants.

15 RESPONSE TO INTERROGATORY NO. 69

16 Objection the term "material allegation". This term is vague  
17 and unintelligible. Assuming that it refers to allegations in the  
18 complaint, there are no allegations specific to this defendant, such  
19 as allegations of where, when and how this defendant caused or  
20 contributed to alleged exposure to asbestos. There are no  
21 allegations in the complaint which are "material" to this defendant.  
22 The complaint consists entirely of vague and conclusory allegations  
23 generically drafted to apply to hundreds of defendants.

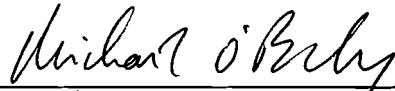
24 RESPONSE TO INTERROGATORY NO. 70

25 Objection the term "material allegation". This term is vague  
26 and unintelligible. Assuming that it refers to allegations in the  
27 complaint, there are no allegations specific to this defendant, such  
28 as allegations of where, when and how this defendant caused or

1 contributed to alleged exposure to asbestos. There are no  
2 allegations in the complaint which are "material" to this defendant.  
3 The complaint consists entirely of vague and conclusory allegations  
4 generically drafted to apply to hundreds of defendants.

5  
6 Dated: March 18, 1996

7 LYNCH, LOOFBOURROW, GILARDI & GRUMMER

8  
9 BY 

10 Michael P. O'Bresly  
11 Attorneys for Defendant  
A.P. GREEN SERVICES, INC.  
f/k/a BIGELOW-LIPTAK CORPORATION

12 ASB\GC183\PAR-SL.1

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1 Droast v. Raybestos-Manhattan, Inc.  
2 SFSC No. 970631

3 PROOF OF SERVICE BY MAIL

4 I am over the age of eighteen (18) years, residing or  
5 employed in the County of San Francisco, and not a party to the  
6 within action; my business address is Lynch, Loofbourrow, Gilardi  
7 & Grummer, 50 Francisco Street, Suite 400, San Francisco,  
8 California 94133.

9 On the date below, I served the within document(s)  
10 entitled **RESPONSES TO PLAINTIFF'S SPECIAL INTERROGATORIES** by  
11 placing it in an envelope addressed as set forth below, and  
12 placing it, following ordinary business practices, for deposit  
13 with the United States Postal Service at my place of business as  
14 set forth above. I am readily familiar with this business  
15 practice for collection and processing of correspondence for  
16 mailing within the United States Postal Service. In the ordinary  
17 course of business, such correspondence would be deposited with  
18 the United States Postal Service that same day.

19 Stephen M. Tigerman, Esq.  
20 Wartnick, Chaber, Harowitz,  
21 Smith & Tigerman  
101 California St., 26th Fl.  
San Francisco, CA 94111

Berry & Berry  
1300 Clay Street 9th Fl.  
Station D-P.O. Box 70250  
Oakland, CA 94612-1428

22 I declare under penalty of perjury under the laws of the  
23 State of California that the foregoing is true and correct.

24 Executed this 18<sup>th</sup> day of March, 1996, at San  
25 Francisco, California.

26 

27 

---

Cecille Tom



*M to compel due 6-2*

1 Duane Grummer, Esq. (State Bar #59445)  
Michael P. O'Bresly, Esq. (State Bar #165512)  
2 LYNCH, LOOFBOURROW, GILARDI & GRUMMER  
50 Francisco Street, Suite 400  
3 San Francisco, California 94133  
Telephone: (415) 397-2800  
4 Facsimile: (415) 397-0937

RECEIVED

MAR 19 1996

5 Attorneys for Defendant,  
**A.P. GREEN SERVICES, INC.**  
6 **f/k/a BIGELOW-LIPTAK CORPORATION**

VARIFIED LAW FIRM

ENTERED MAR 19 1996

8 IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA  
9 IN AND FOR THE COUNTY OF SAN FRANCISCO

11 JAMES B. DROAST, et ux. ) No. 970631  
12 )  
Plaintiffs, ) **RESPONSES TO PLAINTIFF'S**  
13 ) **FORM INTERROGATORIES**  
vs. )  
14 )  
RAYBESTOS-MANHATTAN et al., )  
15 )  
Defendants. )  
16 \_\_\_\_\_ )

17 PROPOUNDING PARTY: Plaintiff JAMES B. DROAST  
18 RESPONDING PARTY: Defendant A. P. GREEN SERVICES, INC.  
19 SET NO. ONE

21 GENERAL OBJECTIONS

22 A. P. GREEN SERVICES, INC. (formerly named BIGELOW-LIPTAK  
23 CORP. and hereinafter referred to as "BIGELOW-LIPTAK") received Form  
24 Interrogatories directed to "All answering defendants herein." The  
25 list of defendants called upon to answer these interrogatories were  
26 nowhere identified in this pleading.

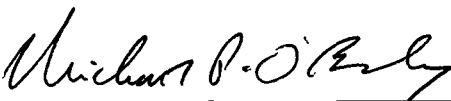
27 Code of Civil Procedure §2030 requires that the party  
28 propounding interrogatories identify the party to respond to the



1 interrogatories. The purported identification "answering defendants  
2 herein" does not identify the parties who are called upon to answer  
3 these interrogatories with any degree of proper notice. This  
4 defendant will not guess as to which defendants are "answering  
5 defendants", and will therefore not presume that this defendant  
6 falls in that category. Therefore, BIGELOW-LIPTAK will not respond  
7 to this set of Form Interrogatories as served on its counsel of  
8 record, and reserves its right to make further responses if proper  
9 notice and proper service of Form Interrogatories is subsequently  
10 effected.

11 Dated: March 18, 1996

12 LYNCH, LOOFBOURROW, GILARDI & GRUMMER

13  
14 By   
15 Michael P. O'Bresly  
16 Attorneys for Defendant  
A.P. GREEN SERVICES, INC.  
f/k/a BIGELOW-LIPTAK CORPORATION

17 ASB\GC183\PRFI.1

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3 PROOF OF SERVICE BY MAIL

4 I am over the age of eighteen (18) years, residing or  
5 employed in the County of San Francisco, and not a party to the  
6 within action; my business address is Lynch, Loofbourrow, Gilardi  
7 & Grummer, 50 Francisco Street, Suite 400, San Francisco,  
8 California 94133.

9 On the date below, I served the within document(s)  
10 entitled **RESPONSES TO PLAINTIFF'S FORM INTERROGATORIES** by placing  
11 it in an envelope addressed as set forth below, and placing it,  
12 following ordinary business practices, for deposit with the United  
13 States Postal Service at my place of business as set forth above.  
14 I am readily familiar with this business practice for collection  
15 and processing of correspondence for mailing within the United  
16 States Postal Service. In the ordinary course of business, such  
17 correspondence would be deposited with the United States Postal  
18 Service that same day.

19 Stephen M. Tigerman, Esq.  
20 Wartnick, Chaber, Harowitz,  
21 Smith & Tigerman  
101 California St., 26th Fl.  
San Francisco, CA 94111

Berry & Berry  
1300 Clay Street 9th Fl.  
Station D-P.O. Box 70250  
Oakland, CA 94612-1428

22 I declare under penalty of perjury under the laws of the  
23 State of California that the foregoing is true and correct.

24 Executed this day of March, 1996, at San  
25 Francisco, California.

26 \_\_\_\_\_  
Cecille Tom

See also  
exhibits to  
Michael Cooney depo.

mcomp  
a.9

Duane W. Grummer, Esq. (State Bar #59445)  
Robert V. Betette, Esq. (State Bar #136337)  
LYNCH, GILARDI & GRUMMER  
50 Francisco Street, Suite 400  
San Francisco, California 94133  
Telephone: (415) 397-2800  
Facsimile: (415) 397-0937

RECEIVED

JUL 28 1997

Attorneys for Defendant,  
**A. P. GREEN SERVICES, INC.**  
formerly known as **BIGELOW-LIPTAK CORP.**

WARTNICK LAW FIRM

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA  
IN AND FOR THE COUNTY OF SAN FRANCISCO

RE: WARTNICK GROUP 36 CASES: )  
)  
LOUIS AKI ) No. 976850  
JESSIE ALLEN ) No. 976359  
WILLIE T. BRATTON ) No. 972442  
LEONARD BROWN ) No. 976864  
BRUNO DEL CASTELLO ) No. 975516  
CLARENCE DOUTY ) No. 976863  
WALTER GANS ) No. 976865  
MOSES GUILLORY ) No. 976856  
FRANK JOHNSON ) No. 976857  
JAMES LEACH ) No. 976976  
ALBERT MARTIN ) No. 976866  
ELBERT MCBRIDE ) No. 976831  
ARTHUR STALLWORTH ) No. 976860  
LINTON STEBBINS ) No. 976149

Plaintiffs,

vs.

RAYBESTOS-MANHATTAN et al.,

Defendants.

SUPPLEMENTAL AND AMENDED  
RESPONSES TO PLAINTIFFS'  
SPECIAL INTERROGATORIES

PROPOUNDING PARTY: WARTNICK GROUP 36 PLAINTIFFS;  
RESPONDING PARTY: A.P. GREEN SERVICES, INC., formerly  
known as "BIGELOW-LIPTAK CORP.";  
SET NO: ONE.

Comes now, Defendant, A.P. Green Services, Inc., formerly

CALENDARIED

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mm

1 known as "Bigelow-Liptak Corp.," and makes the following  
2 supplemental and amended responses to plaintiffs' special  
3 interrogatories, set no. one, in the above-captioned matters.

4 **RESPONSE TO INTERROGATORY NO. 1:**

5 Defendant makes the following supplemental and amended  
6 response to this interrogatory without waiving those objections  
7 previously stated in defendant's original responses. Defendant  
8 hereby incorporates by reference, as if fully set forth herein,  
9 those objections previously made in response to this  
10 interrogatory. In addition, defendant responds only on behalf of  
11 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
12 Corp.," and not on behalf of any other entity or person.

13 This interrogatory is vague and ambiguous with respect to  
14 the term "supply." This term has not been defined herein. In  
15 addition, this term calls for a legal conclusion. Without  
16 waiving the foregoing, defendant responds as follows based on its  
17 own understanding of the scope of this interrogatory.

18 Defendant was predominately a refractory contractor. As a  
19 refractory contractor, defendant would install and repair high  
20 temperature furnace and vessel linings. The repair work may have  
21 required the removal of existing lining materials.

22 This defendant was not a "supplier" of any construction  
23 materials, asbestos-containing or otherwise. As a contractor,  
24 however, defendant may well have provided some of the materials  
25 to be installed or that were used in the repair of units on which  
26 it worked.

27 Defendant did not always provide such materials. The  
28 necessary materials may well have been provided by others,  
including the facility owner, other contractors hired by the

1 owner, or the manufacturer of the unit on which the work was  
2 being done. In those instances where this defendant provided the  
3 necessary materials, the cost of those materials was included in  
4 the lump sum price of the service provided.

5 Although this defendant has undertaken an investigation and  
6 has conducted a diligent search of those records currently  
7 available to it, it is unknown whether defendant actually  
8 performed any work at any of plaintiffs' "job sites" (as defined  
9 herein) during the "relevant time periods" (also as defined  
10 herein). In addition, assuming defendant did do work at  
11 plaintiffs' job sites, it is unknown whether defendant actually  
12 installed or removed any asbestos-containing materials.

13 This defendant is no longer in business. Defendant does no  
14 business. Defendant no longer has any employees. Defendant has  
15 long since disposed of the vast majority of its business records.  
16 While this defendant was actively engaged in business, it did  
17 maintain a collection of job cards. There are job cards that  
18 still exist today. It is unknown, however, whether the job cards  
19 that still exist today are complete. Some job cards may have  
20 been disposed of in the ordinary course of business or may have  
21 otherwise been lost or destroyed over the years.

22 The "job cards" were kept on form number 227 and organized  
23 by the name of the customer. The identity of the customer may  
24 not indicate the location of the job and for that reason it may  
25 be difficult to search for job cards for any specific location.

26 The fact that a job card exists does not necessarily mean  
27 that any work was actually done for the customer. It was the  
28 general practice to create job cards at the time this defendant  
would make a bid on a job in response to an inquiry. Since

1 defendant would not necessarily have been awarded the contract  
2 for the job, defendant may not have ever done any work for the  
3 customer. Additionally, there is no reference on the job cards  
4 to the installation, removal or repair of any asbestos containing  
5 materials.

6 For the foregoing reasons, to the extent there are any job  
7 cards for any of the plaintiffs' job sites, defendant may not  
8 have ever actually performed work at those sites. In addition,  
9 it is impossible to tell from the cards whether any materials,  
10 asbestos containing or otherwise, were ever installed, removed or  
11 repaired.

12 Defendant has identified the following job cards for the  
13 following locations:

14 Leonard Brown

15 Shell Oil Company, Martinez, CA, No. 65-7021;  
16 Shell Oil Company, Martinez, CA, No. 65-7046;  
17 Shell Oil Company, Martinez, CA, No. 65-7064 A&B;  
18 Standard Oil Co. of Cal., Richmond, No. 3970;  
19 Standard Oil Co. of Cal., Richmond, No. 6782;  
20 Standard Oil Co. of Cal., Richmond, No. 63-7012;  
21 Standard Oil Co. of Cal., Richmond, No. 65-8113;  
22 Union Oil Company, Rodeo, CA, No. 709-162-7;  
23 Union Oil Company, Rodeo, CA, No. 709-200-8;

24 Bruno Del Castello

25 Standard Oil Co. of Cal., Richmond, No. 3970;  
26 Standard Oil Co. of Cal., Richmond, No. 6782;  
27 Standard Oil Co. of Cal., Richmond, No. 63-7012;  
28 Standard Oil Co. of Cal., Richmond, No. 65-8113;

James Leach

M.W. Kellogg Job No. 888-5, Lake Charles;  
M.W. Kellogg Job No. 888-1A, Lake Charles, LA;  
M.W. Kellogg Job No. 888-2, Lake Charles, LA;  
M.W. Kellogg Job No. 890, Lake Charles, LA;

Albert Martin

Mare Island Navy Yds., No. 3033;  
United States Mare Island Navy Yards, No. 3033;

1                    Linton Stebbins

2                    Bethlehem Steel Co., San Francisco, CA, No. 2826;

3                    Please note, investigation and discovery are continuing.

4 Defendant hereby reserves its right to rely at the time of trial  
5 on any and all other evidence that may be discovered at some  
6 later time that is otherwise responsive to this interrogatory.

7 **RESPONSE TO INTERROGATORY NO. 2:**

8                    Defendant makes the following supplemental and amended  
9 response to this interrogatory without waiving those objections  
10 previously stated in defendant's original responses. Defendant  
11 hereby incorporates by reference, as if fully set forth herein,  
12 those objections previously made in response to this  
13 interrogatory. In addition, defendant responds only on behalf of  
14 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
15 Corp.," and not on behalf of any other entity or person.

16                    See response to Interrogatory No. 1, above.

17                    Please note, investigation and discovery are continuing.

18 Defendant hereby reserves its right to rely at the time of trial  
19 on any and all other evidence that may be discovered at some  
20 later time that is otherwise responsive to this interrogatory.

21 **RESPONSE TO INTERROGATORY NO. 3:**

22                    Defendant makes the following supplemental and amended  
23 response to this interrogatory without waiving those objections  
24 previously stated in defendant's original responses. Defendant  
25 hereby incorporates by reference, as if fully set forth herein,  
26 those objections previously made in response to this  
27 interrogatory. In addition, defendant responds only on behalf of  
28 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak



1 Corp.," and not on behalf of any other entity or person.

2 See response to Interrogatory No. 1, above.

3 Please note, investigation and discovery are continuing.

4 Defendant hereby reserves its right to rely at the time of trial  
5 on any and all other evidence that may be discovered at some  
6 later time that is otherwise responsive to this interrogatory.

7 **RESPONSE TO INTERROGATORY NO. 4:**

8 Defendant makes the following supplemental and amended  
9 response to this interrogatory without waiving those objections  
10 previously stated in defendant's original responses. Defendant  
11 hereby incorporates by reference, as if fully set forth herein,  
12 those objections previously made in response to this  
13 interrogatory. In addition, defendant responds only on behalf of  
14 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
15 Corp.," and not on behalf of any other entity or person.

16 See response to Interrogatory No. 1, above.

17 Please note, investigation and discovery are continuing.

18 Defendant hereby reserves its right to rely at the time of trial  
19 on any and all other evidence that may be discovered at some  
20 later time that is otherwise responsive to this interrogatory.

21 **RESPONSE TO INTERROGATORY NO. 5:**

22 Defendant makes the following supplemental and amended  
23 response to this interrogatory without waiving those objections  
24 previously stated in defendant's original responses. Defendant  
25 hereby incorporates by reference, as if fully set forth herein,  
26 those objections previously made in response to this  
27 interrogatory. In addition, defendant responds only on behalf of  
28 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
Corp.," and not on behalf of any other entity or person.

1 See response to Interrogatory No. 1, above.

2 Please note, investigation and discovery are continuing.  
3 Defendant hereby reserves its right to rely at the time of trial  
4 on any and all other evidence that may be discovered at some  
5 later time that is otherwise responsive to this interrogatory.

6 **RESPONSE TO INTERROGATORY NO. 6:**

7 Defendant makes the following supplemental and amended  
8 response to this interrogatory without waiving those objections  
9 previously stated in defendant's original responses. Defendant  
10 hereby incorporates by reference, as if fully set forth herein,  
11 those objections previously made in response to this  
12 interrogatory. In addition, defendant responds only on behalf of  
13 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
14 Corp.," and not on behalf of any other entity or person.

15 See response to Interrogatory No. 1, above.

16 Please note, investigation and discovery are continuing.  
17 Defendant hereby reserves its right to rely at the time of trial  
18 on any and all other evidence that may be discovered at some  
19 later time that is otherwise responsive to this interrogatory.

20 **RESPONSE TO INTERROGATORY NO. 7:**

21 Defendant makes the following supplemental and amended  
22 response to this interrogatory without waiving those objections  
23 previously stated in defendant's original responses. Defendant  
24 hereby incorporates by reference, as if fully set forth herein,  
25 those objections previously made in response to this  
26 interrogatory. In addition, defendant responds only on behalf of  
27 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
28 Corp.," and not on behalf of any other entity or person.

See response to Interrogatory No. 1, above.

1 Please note, investigation and discovery are continuing.  
2 Defendant hereby reserves its right to rely at the time of trial  
3 on any and all other evidence that may be discovered at some  
4 later time that is otherwise responsive to this interrogatory.

5 **RESPONSE TO INTERROGATORY NO. 8:**

6 Defendant makes the following supplemental and amended  
7 response to this interrogatory without waiving those objections  
8 previously stated in defendant's original responses. Defendant  
9 hereby incorporates by reference, as if fully set forth herein,  
10 those objections previously made in response to this  
11 interrogatory. In addition, defendant responds only on behalf of  
12 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
13 Corp.," and not on behalf of any other entity or person.

14 See response to Interrogatory No. 1, above.

15 Please note, investigation and discovery are continuing.  
16 Defendant hereby reserves its right to rely at the time of trial  
17 on any and all other evidence that may be discovered at some  
18 later time that is otherwise responsive to this interrogatory.

19 **RESPONSE TO INTERROGATORY NO. 9:**

20 Defendant makes the following supplemental and amended  
21 response to this interrogatory without waiving those objections  
22 previously stated in defendant's original responses. Defendant  
23 hereby incorporates by reference, as if fully set forth herein,  
24 those objections previously made in response to this  
25 interrogatory. In addition, defendant responds only on behalf of  
26 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
27 Corp.," and not on behalf of any other entity or person.

28 See response to Interrogatory No. 1, above.

Please note, investigation and discovery are continuing.

1 Defendant hereby reserves its right to rely at the time of trial  
2 on any and all other evidence that may be discovered at some  
3 later time that is otherwise responsive to this interrogatory.

4 **RESPONSE TO INTERROGATORY NO. 10:**

5 Defendant makes the following supplemental and amended  
6 response to this interrogatory without waiving those objections  
7 previously stated in defendant's original responses. Defendant  
8 hereby incorporates by reference, as if fully set forth herein,  
9 those objections previously made in response to this  
10 interrogatory. In addition, defendant responds only on behalf of  
11 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
12 Corp.," and not on behalf of any other entity or person.

13 See response to Interrogatory No. 1, above.

14 Please note, investigation and discovery are continuing.  
15 Defendant hereby reserves its right to rely at the time of trial  
16 on any and all other evidence that may be discovered at some  
17 later time that is otherwise responsive to this interrogatory.

18 **RESPONSE TO INTERROGATORY NO. 11:**

19 Defendant makes the following supplemental and amended  
20 response to this interrogatory without waiving those objections  
21 previously stated in defendant's original responses. Defendant  
22 hereby incorporates by reference, as if fully set forth herein,  
23 those objections previously made in response to this  
24 interrogatory. In addition, defendant responds only on behalf of  
25 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
26 Corp.," and not on behalf of any other entity or person.

27 This defendant did not manufacture asbestos-containing  
28 products.

Please note, investigation and discovery are continuing.

1 Defendant hereby reserves its right to rely at the time of trial  
2 on any and all other evidence that may be discovered at some  
3 later time that is otherwise responsive to this interrogatory.

4 **RESPONSE TO INTERROGATORY NO. 12:**

5 Not applicable. See response to Interrogatory No. 11,  
6 above.

7 **RESPONSE TO INTERROGATORY NO. 13:**

8 Not applicable. See response to Interrogatory No. 11,  
9 above.

10 **RESPONSE TO INTERROGATORY NO. 14:**

11 Not applicable. See response to Interrogatory No. 11,  
12 above.

13 **RESPONSE TO INTERROGATORY NO. 15:**

14 Not applicable. See response to Interrogatory No. 11,  
15 above.

16 **RESPONSE TO INTERROGATORY NO. 16:**

17 Not applicable. See response to Interrogatory No. 11,  
18 above.

19 **RESPONSE TO INTERROGATORY NO. 17:**

20 Not applicable. See response to Interrogatory No. 11,  
21 above.

22 **RESPONSE TO INTERROGATORY NO. 18:**

23 Not applicable. See response to Interrogatory No. 11,  
24 above.

25 **RESPONSE TO INTERROGATORY NO. 19:**

26 Not applicable. See response to Interrogatory No. 11,  
27 above.

28 **RESPONSE TO INTERROGATORY NO. 20:**

Not applicable. See response to Interrogatory No. 11,

1 above.

2 **RESPONSE TO INTERROGATORY NO. 21:**

3 Defendant makes the following supplemental and amended  
4 response to this interrogatory without waiving those objections  
5 previously stated in defendant's original responses. Defendant  
6 hereby incorporates by reference, as if fully set forth herein,  
7 those objections previously made in response to this  
8 interrogatory. In addition, defendant responds only on behalf of  
9 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
10 Corp.," and not on behalf of any other entity or person.

11 See response to Interrogatory No. 1, above.

12 Please note, investigation and discovery are continuing.  
13 Defendant hereby reserves its right to rely at the time of trial  
14 on any and all other evidence that may be discovered at some  
15 later time that is otherwise responsive to this interrogatory.

16 **RESPONSE TO INTERROGATORY NO. 22:**

17 Defendant makes the following supplemental and amended  
18 response to this interrogatory without waiving those objections  
19 previously stated in defendant's original responses. Defendant  
20 hereby incorporates by reference, as if fully set forth herein,  
21 those objections previously made in response to this  
22 interrogatory. In addition, defendant responds only on behalf of  
23 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
24 Corp.," and not on behalf of any other entity or person.

25 See response to Interrogatory No. 1, above.

26 Please note, investigation and discovery are continuing.  
27 Defendant hereby reserves its right to rely at the time of trial  
28 on any and all other evidence that may be discovered at some  
later time that is otherwise responsive to this interrogatory.

1 **RESPONSE TO INTERROGATORY NO. 23:**

2 Defendant makes the following supplemental and amended  
3 response to this interrogatory without waiving those objections  
4 previously stated in defendant's original responses. Defendant  
5 hereby incorporates by reference, as if fully set forth herein,  
6 those objections previously made in response to this  
7 interrogatory. In addition, defendant responds only on behalf of  
8 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
9 Corp.," and not on behalf of any other entity or person.

10 See response to Interrogatory No. 1, above.

11 Please note, investigation and discovery are continuing.  
12 Defendant hereby reserves its right to rely at the time of trial  
13 on any and all other evidence that may be discovered at some  
14 later time that is otherwise responsive to this interrogatory.

15 **RESPONSE TO INTERROGATORY NO. 24:**

16 Defendant makes the following supplemental and amended  
17 response to this interrogatory without waiving those objections  
18 previously stated in defendant's original responses. Defendant  
19 hereby incorporates by reference, as if fully set forth herein,  
20 those objections previously made in response to this  
21 interrogatory. In addition, defendant responds only on behalf of  
22 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
23 Corp.," and not on behalf of any other entity or person.

24 See response to Interrogatory No. 1, above.

25 Please note, investigation and discovery are continuing.  
26 Defendant hereby reserves its right to rely at the time of trial  
27 on any and all other evidence that may be discovered at some  
28 later time that is otherwise responsive to this interrogatory.

1 **RESPONSE TO INTERROGATORY NO. 25:**

2 Defendant makes the following supplemental and amended  
3 response to this interrogatory without waiving those objections  
4 previously stated in defendant's original responses. Defendant  
5 hereby incorporates by reference, as if fully set forth herein,  
6 those objections previously made in response to this  
7 interrogatory. In addition, defendant responds only on behalf of  
8 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
9 Corp.," and not on behalf of any other entity or person.

10 See response to Interrogatory No. 1, above.

11 Please note, investigation and discovery are continuing.  
12 Defendant hereby reserves its right to rely at the time of trial  
13 on any and all other evidence that may be discovered at some  
14 later time that is otherwise responsive to this interrogatory.

15 **RESPONSE TO INTERROGATORY NO. 26:**

16 Defendant makes the following supplemental and amended  
17 response to this interrogatory without waiving those objections  
18 previously stated in defendant's original responses. Defendant  
19 hereby incorporates by reference, as if fully set forth herein,  
20 those objections previously made in response to this  
21 interrogatory.

22 The term "general contractor" is vague and ambiguous as used  
23 in this interrogatory. The term has not been defined herein.  
24 Without waiving the foregoing, defendant responds as follows  
25 based on its own understanding of the scope of this  
26 interrogatory.

27 Defendant was not a general contractor. See response to  
28 Interrogatory No. 1, above.

Please note, investigation and discovery are continuing.



1 Defendant hereby reserves its right to rely at the time of trial  
2 on any and all other evidence that may be discovered at some  
3 later time that is otherwise responsive to this interrogatory.

4 **RESPONSE TO INTERROGATORY NO. 27:**

5 Defendant makes the following supplemental and amended  
6 response to this interrogatory without waiving those objections  
7 previously stated in defendant's original responses. Defendant  
8 hereby incorporates by reference, as if fully set forth herein,  
9 those objections previously made in response to this  
10 interrogatory. In addition, defendant responds only on behalf of  
11 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
12 Corp.," and not on behalf of any other entity or person.

13 See response to Interrogatory No. 1, above.

14 Please note, investigation and discovery are continuing.  
15 Defendant hereby reserves its right to rely at the time of trial  
16 on any and all other evidence that may be discovered at some  
17 later time that is otherwise responsive to this interrogatory.

18 **RESPONSE TO INTERROGATORY NO. 28:**

19 Defendant makes the following supplemental and amended  
20 response to this interrogatory without waiving those objections  
21 previously stated in defendant's original responses. Defendant  
22 hereby incorporates by reference, as if fully set forth herein,  
23 those objections previously made in response to this  
24 interrogatory. In addition, defendant responds only on behalf of  
25 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
26 Corp.," and not on behalf of any other entity or person.

27 See response to Interrogatory No. 1, above.

28 Please note, investigation and discovery are continuing.  
Defendant hereby reserves its right to rely at the time of trial

1 on any and all other evidence that may be discovered at some  
2 later time that is otherwise responsive to this interrogatory.

3 **RESPONSE TO INTERROGATORY NO. 29:**

4 Defendant makes the following supplemental and amended  
5 response to this interrogatory without waiving those objections  
6 previously stated in defendant's original responses. Defendant  
7 hereby incorporates by reference, as if fully set forth herein,  
8 those objections previously made in response to this  
9 interrogatory. In addition, defendant responds only on behalf of  
10 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
11 Corp.," and not on behalf of any other entity or person.

12 See response to Interrogatory No. 1, above. See also  
13 response to Interrogatory No. 26, above.

14 Please note, investigation and discovery are continuing.  
15 Defendant hereby reserves its right to rely at the time of trial  
16 on any and all other evidence that may be discovered at some  
17 later time that is otherwise responsive to this interrogatory.

18 **RESPONSE TO INTERROGATORY NO. 30:**

19 Defendant makes the following supplemental and amended  
20 response to this interrogatory without waiving those objections  
21 previously stated in defendant's original responses. Defendant  
22 hereby incorporates by reference, as if fully set forth herein,  
23 those objections previously made in response to this  
24 interrogatory. In addition, defendant responds only on behalf of  
25 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
26 Corp.," and not on behalf of any other entity or person.

27 Defendant contends that if plaintiffs were exposed to  
28 asbestos and developed an asbestos-related disease, plaintiffs'  
diseases were caused by the acts of other individuals and

1 entities.

2 Please note, investigation and discovery are continuing.  
3 Defendant hereby reserves its right to rely at the time of trial  
4 on any and all other evidence that may be discovered at some  
5 later time that is otherwise responsive to this interrogatory.

6 **RESPONSE TO INTERROGATORY NO. 31:**

7 Defendant makes the following supplemental and amended  
8 response to this interrogatory without waiving those objections  
9 previously stated in defendant's original responses. Defendant  
10 hereby incorporates by reference, as if fully set forth herein,  
11 those objections previously made in response to this  
12 interrogatory. In addition, defendant responds only on behalf of  
13 A.P. Green Services, Inc., formerly known as "Bigelow-Liptak  
14 Corp.," and not on behalf of any other entity or person.

15 Defendant identifies the plaintiffs themselves, their  
16 employers, their co-workers, their unions, and those other  
17 entities and persons identified by plaintiffs in their pleadings  
18 and discovery to date.

19 Please note, investigation and discovery are continuing.  
20 Defendant hereby reserves its right to rely at the time of trial  
21 on any and all other evidence that may be discovered at some  
22 later time that is otherwise responsive to this interrogatory.

23 **RESPONSE TO INTERROGATORY NO. 32:**

24 See response to Interrogatory No. 31, above.

25 **RESPONSE TO INTERROGATORY NO. 33:**

26 See response to Interrogatory No. 31, above.  
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RESPONSE TO INTERROGATORY NO. 34:

See response to Interrogatory No. 32, above.

DATED: July 28, 1997

LYNCH, GILARDI & GRUMMER

By: Robert V. Betette  
Robert V. Betette

Attorneys for Defendant,  
A.P. Green Services, Inc.,  
formerly known as "Bigelow-  
Liptak, Corp."

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**PROOF OF SERVICE**

I certify that I am over the age of 18 years and not a party to the within action; that my business address is 50 Francisco Street, Suite 400, San Francisco, CA 94133; and that on this date I served a true copy of the document(s) entitled: **A. P. Green Services, Inc.'s SUPPLEMENTAL AND AMENDED RESPONSES TO PLAINTIFFS' SPECIAL INTERROGATORIES** in the matter of **Louis Aki v. Raybestos-Manhattan (Wartnick Group 36 cases)** on the following parties:

Harry F. Wartnick, Esq.  
101 California Street, 26th Fl.  
San Francisco, CA 94111  
Fax: (415)391-5845

Service was effectuated by forwarding the above noted document to Berry & Berry by Regular Mail and to the firm representing Plaintiff(s) in the following manner:

- \_\_\_ **By Regular Mail** in a sealed envelope, addressed as noted above, with postage fully prepaid and placing it for collection and mailing following the ordinary business practices of Lynch, Gilardi & Grummer.
- x **By Hand Delivery** in a sealed envelope, addressed as noted above, through services provided by Lightning Messenger and billed to Lynch, Gilardi & Grummer.
- \_\_\_ **By Facsimile** to the numbers as noted above by placing it for facsimile transmittal following the ordinary business practices of Lynch, Gilardi & Grummer.
- \_\_\_ **By Overnight Courier** in a sealed envelope, addressed as noted above, through services provided by Federal Express and billed to Lynch, Gilardi & Grummer.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on 7/28/97, at San Francisco, California.

*Nancy K. Burnett*

USR\ASB\GC255\PIPOShand.

CONSECUTIVE

NAME M. W. KELLOGG JOB # 888-5

ADDRESS CITIES SERV. REFIN. COM. LAKE CHARLES,				DWG. NO. 11077
APPLIED TO BOILER OR FURN. CLASS SETTING				DATE 2-3-43
STEAM SUPERHEATER FURNACE				
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 3288
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 3937
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
1	1			CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		
				FORM 887

CONSECUTIVE

NAME M. W. KELLOGG JOB 888-1A

ADDRESS CITIES SERVICE REFINING - LAKE CHARLES, LA.				DWG. NO. 11073
APPLIED TO BOILER OR FURN. CLASS SETTING				DATE 2-1-43
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 3249
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 3905
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
1, 2	3	4		CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
		5-H	6-H	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		
				FORM 887

CONSECUTIVE

NAME M. W. KELLOGG JOB 888-2

ADDRESS CITIES SERVICE OIL CO. LAKE CHARLES, LA.

DWG. NO. 11066

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
D-2 REGENERATOR					
H. P.	OPER. PRESS.	FURN. WIDTH		HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.		AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH. 1, 2, 3, 4.	STEEL ASSEM. SH. 5, 6, 7, 8, 9, 16, 17.	BRACKET ASSEM. SH.		CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.		STEEL DETAILS SH. 10, 11, 16H, 19H.	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			Casting Details 14H, 15H Tile De- tails 12, 13

FORM 217

CONSECUTIVE

NAME M. W. KELLOGG CO. JOB 890

ADDRESS LAKE CHARLES, LA.

DWG. NO. 11075

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
MATHIESON ALKALI WORKS					1-30-13
H. P.	OPER. PRESS.	FURN. WIDTH		HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.		AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.		CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.		STEEL DETAILS SH.	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 217

MARTIN

<u>CONSECUTIVE</u>				
NAME MARE ISLAND NAVY YDS.				
ADDRESS MARE ISLAND, CALIF.				DWG. NO. 10977
APPLIED TO BOILER OR FURN. CLASS SETTING DATE STATIONARY HEARTH ROLLING HEAT TREATING 1-8-42				
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED FURN.	CONT. NO. 3033
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 3680
GENERAL ASSEM. SH. 1	STEEL ASSEM. SH.	BRACKET ASSEM. SH. 1.	CASING ASSEM. SH.	MADE BY CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 827

<u>CONSECUTIVE</u>				
NAME UNITED STATES MARE ISLAND NAVY YARDS				
ADDRESS NATURAL GAS EQUIPMENT				DWG. NO. 10977
APPLIED TO BOILER OR FURN. CLASS SETTING DATE STATIONARY HEARTH HEAT TREATING ROLLING 1-8-42				
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED FURN.	CONT. NO. 3033
NO. SETTINGS	HANDING	(TP 3572H)	AUXIL. FIRING	REQ'N. NO. 3680
GENERAL ASSEM. SH. 10977	STEEL ASSEM. SH. ✓	BRACKET ASSEM. SH. 1	CASING ASSEM. SH. ✓	MADE BY CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH. ✓	BRACKET STOP-OFFS SH. ✓	STEEL DETAILS SH. ✓	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. ✓	CASING DETAILS SH.		

FORM 827



CONSECUTIVE

C. O. B. C.

NAME SHELL OIL COMPANY				DWG. NO. 14190
ADDRESS Martinez, California				DATE 2-1-65
APPLIED TO One Alcorn CO Gas Fired F-62 Waste Heat Boiler		BOILER OR FURN. CLASS	SETTING	CONT. NO. 65-7021
N.P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	REG'N. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	MADE BY
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	GASING ASSEM. SH.	CHKD. BY
MISCELLANEOUS SH.	BLK. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	GASING DETAILS SH.		

FORM 887

CONSECUTIVE

SHELL OIL COMPANY

NAME SHELL OIL COMPANY				DWG. NO. 14202
ADDRESS Martinez, California				DATE 3-12-65
APPLIED TO F.W Direct Fired Heaters-F-41-A & -B		BOILER OR FURN. CLASS	SETTING	CONT. NO. 65-7046
N.P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	REG'N. NO.
NO. SETTINGS TWO	HANDING	T.P. NO.	AUXIL. FIRING	MADE BY
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	GASING ASSEM. SH.	CHKD. BY
MISCELLANEOUS SH.	BLK. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	GASING DETAILS SH.		

FORM 887

CONSECUTIVE

NAME SHELL OIL COMPANY

ADDRESS Martinez, California

DWG. NO. 14203

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
29 Direct Fired Foster Wheeler Heaters 3-12-65

N. P. OPER. PRESS. FURN. WIDTH HOW FIRED CONT. NO. 65-7064 A&B

NO. SETTINGS HANDING T.P. NO. AUXIL. FIRING REG'N. NO.

GENERAL ASSEM. SH. STEEL ASSEM. SH. BRACKET ASSEM. SH. CASING ASSEM. SH. MADE BY

CHECKED BY

MISCELLANEOUS SH. BLR. STEEL DRILL. SH. BRACKET STOP-OFFS SH. STEEL DETAILS SH.

INSUL. DETAILS SH. ANCHOR BOLT PLAN SH. CASING DETAILS SH.

FORM 887

CONSECUTIVE

NAME STANDARD OIL CO. OF CALIFORNIA

ADDRESS RICHMOND REF. #6 UNIT

DWG. NO. 11700

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
RILEY BOILERS & PEABODY BURNERS 1-14-47

N. P. OPER. PRESS. FURN. WIDTH HOW FIRED CONT. NO. 3970

NO. SETTINGS HANDING T.P. NO. AUXIL. FIRING REG'N. NO. 4630

GENERAL ASSEM. SH. 1 STEEL ASSEM. SH. 2 BRACKET ASSEM. SH. 2 CASING ASSEM. SH. MADE BY

CHECKED BY

MISCELLANEOUS SH. BLR. STEEL DRILL. SH. BRACKET STOP-OFFS SH. STEEL DETAILS SH. 4-Q

INSUL. DETAILS SH. 3-Q ANCHOR BOLT PLAN SH. CASING DETAILS SH.

FORM 887

<u>CONSECUTIVE</u>				
NAME STANDARD OIL CO. OF CALIFORNIA				
ADDRESS RICHMOND, CALIFORNIA				DWG. NO. 7071
APPLIED TO		BOILER OR FURN.	GLASS	SETTING
RILEY BLR. & PEABODY BURNERS				DATE May, 1936
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 1990
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 2524
GENERAL ASSEM. SH.	STEEL ASSEM. SH. 7072	BRACKET ASSEM. SH. 7072	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. 7073	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 857

<u>CONSECUTIVE</u>				
NAME STANDARD OIL COMPANY OF CALIFORNIA				
ADDRESS RICHMOND, CALIFORNIA				DWG. NO. NONE
APPLIED TO		BOILER OR FURN.	GLASS	SETTING
THREE PLATFORM REACTOR LININGS R-106-107 & 108				DATE 12-23-57
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 6782
INCLUDING COLUMN SKIRT FIREPROOFING.				REQ'N. NO. 6782
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	MADE BY
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 857

CONSECUTIVE

NAME STANDARD OIL CO. CALIFORNIA

ADDRESS <del>UNKNOWN</del> <b>RICHMOND, CALIF</b>				DWG. NO. <b>13961</b>
APPLIED TO <b>ONE SELAS HEATER</b>				DATE <b>1-11-63</b>
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. <b>63-7012</b>
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. <b>63-7012</b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 857

CONSECUTIVE

NAME STANDARD OIL OF CALIFORNIA

ADDRESS <b>Richmond, California</b>				DWG. NO. <b>14263</b>
APPLIED TO <b>Two (2) Xylene Reactors</b>				DATE <b>6-30-65</b>
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. <b>65-8113</b>
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 857

CONSECUTIVE

**NAME** Union Oil Co.

**ADDRESS** Rodeo, California

DWG. NO.  
14698

<b>APPLIED TO</b>		<b>BOILER OR FURN.</b>	<b>GLASS</b>	<b>SETTING</b>	<b>DATE</b>
		(1) Selas Heater			8-14-69
<b>N. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b>	<b>REQ'D. NO.</b>
				709-162-7	709-162-7
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T.P. NO.</b>	<b>AUXIL. FIRING</b>	<b>MADE BY</b>	
				CHKD. BY	
<b>GENERAL ASSEM. SH.</b>	<b>STEEL ASSEM. SH.</b>	<b>BRACKET ASSEM. SH.</b>	<b>CASING ASSEM. SH.</b>		
<b>MISCELLANEOUS SH.</b>	<b>SLR. STEEL DRILL. SH.</b>	<b>BRACKET STOP-OFFS SH.</b>	<b>STEEL DETAILS SH.</b>		
<b>INSUL. DETAILS SH.</b>	<b>ANCHOR BOLT PLAN SH.</b>	<b>CASING DETAILS SH.</b>			

FORM 627

CONSECUTIVE

**NAME** Union Oil Company

**ADDRESS** Rodeo, California

DWG. NO.  
14714

<b>APPLIED TO</b>		<b>BOILER OR FURN.</b>	<b>GLASS</b>	<b>SETTING</b>	<b>DATE</b>
		Refractory Lined Transfer Line			10-24-69
<b>N. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b>	<b>REQ'D. NO.</b>
				700-200-8	700-200-8
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T.P. NO.</b>	<b>AUXIL. FIRING</b>	<b>MADE BY</b>	
				CHKD. BY	
<b>GENERAL ASSEM. SH.</b>	<b>STEEL ASSEM. SH.</b>	<b>BRACKET ASSEM. SH.</b>	<b>CASING ASSEM. SH.</b>		
<b>MISCELLANEOUS SH.</b>	<b>SLR. STEEL DRILL. SH.</b>	<b>BRACKET STOP-OFFS SH.</b>	<b>STEEL DETAILS SH.</b>		
<b>INSUL. DETAILS SH.</b>	<b>ANCHOR BOLT PLAN SH.</b>	<b>CASING DETAILS SH.</b>			

FORM 627

STEBBENS

CONSECUTIVE

NAME **BETHLEHEM STEEL CO.**

DWS. NO.  
**10807**

ADDRESS **SAN FRANCISCO, CAL.**

DATE

**2-28-10**

APPLIED TO **Heat Treating Furn.**

BOILER OR FURN.

CLASS

SETTING

CONT. NO.

**2826**

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	REG'N. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	<b>3424</b>
GENERAL ASSEM. SH. <b>LH</b>	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	DLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 327

LYNCH, GILARDI & GRUMMER

A PROFESSIONAL CORPORATION

ATTORNEYS AT LAW

50 FRANCISCO STREET, SUITE 400

SAN FRANCISCO, CALIFORNIA 94133

(415) 397-2800

TELECOPIER (415) 397-0937

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RALPH R. RHOADES  
WILLIAM A. BOGDAN  
DANIEL F. MCLENNON  
ELISABETH A. MADDEN  
JAMES E. SELL  
ARIF VIRJI

OF COUNSEL  
SEYMOUR FARBER

ROBERT V. BETETTE  
KENNETH VIERRA, JR.  
MICHAEL P. O'BRESLY  
MATTHEW F. MILLER  
HEIDI LOKEN BENAS  
JOHN J. MIFSUD  
MAUREEN E. MCTAGUE  
MARGARET B. LUCEY  
REGINA J. MCCLENDON  
GRETCHEN O. NADY  
DAVID S. BLOCH  
PETER M. GECKELER  
JOSEPH F. MOORE  
JENNIE LAU

June 11, 1998

Cheryl L. White, Esq.  
Wartnick, Chaber et al.  
101 California Suite 2200  
San Francisco, California 94111

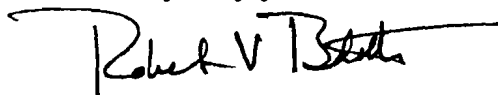
Re: **In Re: Asbestos Litigation Complex Asbestos Litigation**  
**San Francisco Superior Court No. 828-684**  
Our Client: **A.P. GREEN SERVICES, INC.**

Dear Ms. White:

We still have not received an Order of the Court on plaintiff's Motion to Compel Further Responses by A.P. Green Services to the General Order 29 Interrogatories. We do not know the reason for the court's delay. We are enclosing herein, however, copies of the responsive job cards. The cards being produced are those that fall within the relevant geographic area as defined by the General Order 29 Interrogatories. The cards have been organized in alphabetical order and have been bated stamped for easy reference. We have also included an appropriate proof of service.

Should you desire to discuss this matter, please do not hesitate to contact us.

Very truly yours,



Robert V. Betette

RVB:tc

N:\apg\general\discovery\wartnick.001

CONSECUTIVE

NAME ACE APPLIANCE REFINISHING CO.

ADDRESS SAN FRANCISCO, CALIF.

DWG. NO.  
13642

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
HEAT & CONTROLS INC. PORCELAIN ENAMELING FURNACE 7-7-59

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 7034
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 7034
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227



CONSECUTIVE				
NAME <b>ACME BREWERIES</b>				
ADDRESS <b>SAN FRANCISCO, CALIF.</b>				DWG. NO. <b>9807-H</b>
APPLIED TO <b>593 HP BIGELOW LOW HD. BOILER</b>				
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH. <b>9807-H</b>	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME <b>AMERICAN CREAM OF TARTAR COMPANY</b>				DWG. NO.
ADDRESS <b>SAN FRANCISCO</b>				
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH. <b>6429-H</b>	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

FORM

CONSECUTIVE				
NAME BEAR CREEK VINEYARDS ASSN.				
ADDRESS Lodi, California				DWG. NO. 12575
APPLIED TO	BOILER OR EQUIP.	CLASS	SETTING	DATE
	BIGELOW	S.F. WATER TUBE	SINGLE	5-23-51
M. P. 308	OPER. PRESS. 250 #	FURN. WIDTH 7-11"	HOW FIRED Garner's Burners	CONT. NO. 5574
NO. SETTINGS ONE	HANDING ✓	T.P. NO. ✓	AUXIL. FIRING ✓	REQ'N. NO. 5574
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY C. W.
1	1	1	✓	CHKD. BY WEL
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
✓	1	✓	2-3	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		
✓	✓	✓		

FORM 227

CONSECUTIVE

NAME BEST FERTILIZERS CO.

ADDRESS LATHROP, CALIFORNIA

DWG. NO.

12950

APPLIED TO ONE 11,000,000 BTU SLURRY DRIER FURNACE

DATE

7/1/53

H. P.	OPER. PRESS.	FURN. WIDTH <u>6'-0"</u>	HOW FIRED <u>OIL &amp; GAS</u>	CONT. NO. <u>5989</u>
NO. SETTINGS <u>ONE</u>	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. <u>5989</u>
GENERAL ASSEM. SH. <u>1 &amp; 2</u>	STEEL ASSEM. SH. <u>4</u>	BRACKET ASSEM. SH. <u>4</u>	CASING ASSEM. SH.	MADE BY <u>RJB</u>
MISCELLANEOUS SH. <u>LOUVER</u> DWG. SH. <u>4</u>	SLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. <u>5, 6, 7</u>	CHKD. BY <u>JMC</u>
INSUL. DETAILS SH. <u>7</u>	ANCHOR BOLT PLAN SH. <u>3</u>	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME BETHLEHEM PACIFIC COAST STEEL CORP.

DWS. NO.

ADDRESS HULLS NO. 5483 & 5487 13500-B

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
FOUR		FOSTER-WHEELER 2-DRUM MARINE BLRS.			10-29-57
H.P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
W/TODD BURNERS.				6759-B	
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.	
				6759-B	
GENERAL ASSEM. SN.	STEEL ASSEM. SN.	BRACKET ASSEM. SN.	CASING ASSEM. SN.	MADE BY	
				CHKD. BY	
MISCELLANEOUS SN.	BLR. STEEL DRILL. SN.	BRACKET STOP-OFFS SN.	STEEL DETAILS SN.		
INSUL. DETAILS SN.	ANCHOR BOLT PLAN SN.	CASING DETAILS SN.			

FORM 217

CONSECUTIVE				
NAME BETHLEHEM PACIFIC COAST STEEL CO.				
ADDRESS SAN FRANCISCO, CALIFORNIA				DWG. NO. 10807 SH 2
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
STRESS RELIEVING FURNACE				DATE 11-8-56
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 6581
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 6581
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME BETHLEHEM STEEL CO.

ADDRESS SAN FRANCISCO, CAL.

DWG. NO.  
10807

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
Heat Treating Furn.					2-28-47
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	2826
NO. SETTINGS	HANDING	T. P. NO.	AUXIL FIRING	REQ'N. NO.	3424
GENERAL ASSEM. SH. 1H	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	
				CHKD. BY	
MISCELLANEOUS SH.	SLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.		
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227

CONSECUTIVE

NAME BORDON COMPANY

ADDRESS MODESTO, CALIFORNIA

DWG. NO.  
4549

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	10-4-32
NO. SETTINGS	HANDING	T. P. NO.	AUXIL FIRING	CONT. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET-ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227



CONSECUTIVE				
NAME <b>BROOKINGS PLYWOOD, INC.</b>				
ADDRESS <b>ARCATA, CALIFORNIA</b>				DWG. NO. <b>12413</b>
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
<b>(1)</b>		<b>750 HP GARRETT &amp; SHAFER BOILER</b>		
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	DATE
			<b>Wood Refuse</b>	<b>10-9-51</b>
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	CONT. NO.
				<b>5347</b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	REQ'N. NO.
				<b>5347</b>
				MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.	<i>Also: #5347, 12-21-51</i>	

FORM 227

CONSECUTIVE

NAME CALAVERAS CEMENT CO.

ADDRESS SAN ANDREAS, CALIF.

DWG. NO.  
6184

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.	
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	
				CHKD. BY	
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	Misc. Steel	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		By B-L Corp. 6213-Q	

FORM 227

CONSECUTIVE				
NAME CALAVERAS CEMENT COMPANY				
ADDRESS SAN FRANCISCO, CALIFORNIA				DWG. NO. 12654
APPLIED TO Allis-Chalmers Cement Clinker Cooler		BOILER OR FURN.	CLASS	SETTING DATE 10-18-51
H. P.	NO. SETTINGS	STYLE "B"	FURN. WIDTH 4'-6" x 85'-0"	HOW FIRED 5674
		HANDING	T.P. NO.	AUXIL FIRING REQ'N. NO. 5674
GENERAL ASSEM. SH. 2 & 3	STEEL ASSEM. SH. 4	BRACKET ASSEM. SH. 5	CASING ASSEM. SH.	MADE BY HPB CHKD. BY CW
MISCELLANEOUS SH.	SLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH. 5	STEEL DETAILS SH. 6 thru 11	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. 1	CASING DETAILS SH.		

FORM 227

<b>CONSECUTIVE</b>				
<b>NAME</b> CALIFORNIA AMMONIA				
<b>ADDRESS</b> LATHROP, CALIFORNIA				<b>DWG. NO.</b> 13521
<b>APPLIED TO</b> ONE SELAS		<b>BOILER OR FURN.</b> STEAM METHANE REFORMER	<b>CLASS</b> (OIL HEATER)	<b>SETTING DATE</b> 3-18-58
<b>M. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b> 6831
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T. P. NO.</b>	<b>AUXIL FIRING</b>	<b>RES'N. NO.</b> 6831
<b>GENERAL ASSEM.</b> SH.	<b>STEEL ASSEM.</b> SH.	<b>BRACKET ASSEM.</b> SH.	<b>CASING ASSEM.</b> SH.	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS</b> SH.	<b>BLR. STEEL DRILL.</b> SH.	<b>BRACKET STOP-OFFS</b> SH.	<b>STEEL DETAILS</b> SH.	
<b>INSUL. DETAILS</b> SH.	<b>ANCHOR BOLT PLAN</b> SH.	<b>CASING DETAILS</b> SH.		

FORM 227

CONSECUTIVE

NAME CALIFORNIA FRUIT EXCHANGE

ADDRESS GRAEGLE, CALIF.

DWG. NO.

8268

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
H. P.		OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS		HANDING	T.P. NO.	AUXIL. FIRING	REG'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.		
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227

CONSECUTIVE

NAME CEREAL PRODUCTS REENG. CO.

ADDRESS SAN FRANCISCO, CALIF.

DWG. NO.  
6432

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.	
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	
MISCELLANEOUS SH.	SLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	CHKD. BY	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

OIL

2476

6433

FORM 227

CONSECUTIVE

NAME CHAMPION BUILDING PRODUCTS (FORMERLY U.S. PLYWOOD)

ADDRESS ANDERSON, CALIFORNIA

DWG. NO.  
14387

APPLIED TO BOILER OR FURN. CLASS SETTING  
WOODCHIP DRYER w/ CUBN BURNER

DATE  
4-5-66

CONT. NO.  
66-8103

MADE BY

CHKD. BY

FORM 227

NAME <i>Clover Valley Lumber Co.</i>	DATE <i>8-30-43</i>
ADDRESS <i>Loyalton - California</i>	REQ. <i>4034</i>
APPLIED TO <i>435-ft. Casey Hedges Bitter</i>	CONT. <i>3362</i>
GEN. ASSY. <i>Dwg. # 11307 Shs. 1 &amp; 13</i>	
STEEL ASSY. <i>sh-2</i>	CASING ASSY. <i>NONE</i>
BRACKET ASSY. <i>4</i>	BRKT. STOP OFFS. <i>14-H.</i>
ANCHOR BOLTS <i>3</i>	BLR. STEEL DRILLING <i>5</i>
STEEL DETAILS <i>6 to 12-INCL.</i>	
CASING DETAILS <i>NONE</i>	



NAME CLOVER VALLEY LUMBER CO	DATE 5/29/41
ADDRESS LOYALTON - CAL	REQ. 3437
APPLIED TO BIGELOW BLR.	CONT. 2913
GEN. ASSY. 9869 1 & 11	
STEEL ASSY. 3	CASING ASSY.
BRACKET ASSY. 6	BRKT. STOP OFFS. 5
ANCHOR BOLTS	BLR. STEEL DRILLING
STEEL DETAILS 7-8-9-10	
CASING DETAILS	

NAME CLOVER VALLEY LUMBER Co	DATE 8-40
ADDRESS LOYALTON, CALIFORNIA	REQ. 3212
APPLIED TO 604 HP <sup>HOGGED-FUEL</sup> STIRLING BOILER	CONT.
GEN. ASSY. SH-1 -10-H	KEY *9842
STEEL ASSY. SH.# 3,2,9	CASING ASSY.
BRACKET ASSY.	BRKT. STOP OFFS.
ANCHOR BOLTS	BLR. STEEL DRILLING
STEEL DETAILS SH.# 5,6,7,8	
CASING DETAILS	
	FOUNDATION SH. 4

Form 119-1000-8-30

COLGATE PALMOLIVE PART CO.

BERKELEY, CAL.

For (2) 3.50 HP STIRLING B.L.R.S.

DRAWING NO.

7256

DATA NO.

CONTRACT NO.

DATE DRAWN

CONSECUTIVE				
NAME <b>COLLINS PINE COMPANY</b>				
ADDRESS <b>CHESTER, CALIFORNIA</b>				DWG. NO. <b>12109</b>
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	<b>P.S.M.D.</b>			<b>7-14-49</b>
N. P. <b>1250</b>	OPER. PRESS.	FURN. WIDTH <b>21'-0"</b>	HOW FIRED <b>Wood REFUSE</b>	CONT. NO. <b>5128</b>
NO. SETTINGS <b>ONE</b>	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. <b>4969</b>
GENERAL ASSEM. SH. <b>4,5,6,3.</b>	STEEL ASSEM. SH. <b>7,8.</b>	BRACKET, ASSEM. SH. <b>9</b>	CASING ASSEM. SH.	MADE BY <b>TODOR</b>
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH. <b>2</b>	BRACKET STOP-OFFS SH. <b>10-H.</b>	STEEL DETAILS SH. <b>11-Q.</b>	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. <b>1-H</b>	CASING DETAILS SH.		

FORM 227

<b>NAME</b> COLLINS PINE CO. (Grande Ronde Pine Co.)	formerly	<b>DATE</b> 6/19/42
<b>ADDRESS</b> CHESTER, CAL.		<b>REQ.</b> 3449
<b>APPLIED TO</b> Stir. Blr. Ref. Furn.		<b>CONT.</b> 3187
<b>GEN. ASSY.</b> 9887 1	For 703 H.P. Blr.	
<b>STEEL ASSY.</b>	<b>CASING ASSY.</b>	
<b>BRACKET ASSY.</b>	<b>BRKT. STOP OFFS.</b> 2-H	
<b>ANCHOR BOLTS</b>	<b>BLR. STEEL DRILLING</b>	
<b>STEEL DETAILS</b>		
<b>CASING DETAILS</b>		

CONSECUTIVE				
NAME COMBUSTION POWER CO.				
ADDRESS MONTE PARK, CALIF.				DWG. NO. 15420
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
(3) MANIFOLD INLETS				5-22-84
				CONT. NO. 624-008-4
				MADE BY A. ANDERSON
				CHKD. BY
				FORM 227

CONSECUTIVE

NAME COMBUSTION POWER CO

ADDRESS MENLO PARK, CALIF

DWG. NO.

15419

APPLIED TO

BOILER OR FURN.

CLASS

SETTING

DATE

5-22-84

(3) RING MANIFOLDS & (36) RISERS

CONT. NO.

624-007-1

MADE BY

A. DUNN

CHKD. BY

FORM 227

CONSECUTIVE

NAME CRANE CREEK LUMBER CO.

ADDRESS WILLOW RANCH, CALIFORNIA

DWG. NO.  
5011-H

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REG'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. 5021-H	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 127



CONSECUTIVE

NAME CRANE CREEK LUMBER CO.

ADDRESS WILLOW RANCH, CAL.

DWG. NO.  
8712

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
NO. SETTINGS	HANDING	T. P. NO.	AUXIL FIRING	REQ'D. NO. 2766	
GENERAL ASSEM. SH. 8712	STEEL ASSEM. SH. 8714	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	
				CHKD. BY	
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	(over)	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227

STEEL & CASTING DETAIL 8715-Q  
STEEL DETAILS 8723, 8725

005025

<b>CONSECUTIVE</b>				
<b>NAME</b> DAIRMENS COOPERATIVE ASSOCIATION				
<b>ADDRESS</b> TULARE, CALIFORNIA				<b>DWG. NO.</b> 7216
<b>APPLIED TO</b> BOILER OR FURN. CLASS SETTING DATE				
249 HP BIGELOW BOILER				
<b>H. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b>
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T.P. NO.</b>	<b>AUXIL. FIRING</b>	<b>REQ'N. NO.</b>
<b>GENERAL ASSEM. SH.</b>	<b>STEEL ASSEM. SH.</b>	<b>BRACKET ASSEM. SH.</b>	<b>CASING ASSEM. SH.</b>	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS SH.</b>	<b>BLR. STEEL DRILL. SH.</b>	<b>BRACKET STOP-OFFS SH.</b>	<b>STEEL DETAILS SH.</b>	
<b>INSUL. DETAILS SH.</b>	<b>ANCHOR BOLT PLAN SH.</b>	<b>CASING DETAILS SH.</b>		
				<b>FORM 227</b>

CONSECUTIVE				
NAME DESCHUTES LUMBER COMPANY				
ADDRESS ANDERSON, CALIFORNIA				DWG. NO. 11326
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
500 HP P.S.M.D.		BLR. WOOD REFUSE		
DATE		11-20-44		
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 3514
NO. SETTINGS	HANDING	T.P. NO.	AUXIL FIRING	REQ'N. NO. 4010
GENERAL ASSEM. SH. 2 & 3	STEEL ASSEM. SH. 4 & 5	BRACKET ASSEM. SH. 6	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH. 5H	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. 1H	CASING DETAILS SH.	7-8-9	

FORM 227

CONSECUTIVE				
NAME DON CHEMICAL CO. (GREAT WESTERN DIVISION)				
ADDRESS PITTSBURGH, CALIFORNIA				DWG. NO. 10672
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	B & W 708 HP CL. 42 #22 OIL & GAS FURN.			10-29-40
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 2753
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 3370
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
1	2	3		CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
	2	5-2	6-11 inc.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		
	LH			

FORM 227

CONSECUTIVE

NAME <b>E.I. DUPONT DE NEMOURS &amp; COMPANY</b>				DWG. NO. <b>15015</b>
ADDRESS <b>ANTIOCH, CALIFORNIA</b>				
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE <b>4-74</b>
<b>QUENCH</b> <b>EVAPORATIVE COOLER</b>  <b>REVAMP TO QUENCH</b> <b>CHECKER WALL 708-065-4</b>				CONT. NO. <b>704-049.0</b>
				MADE BY
				CHKD. BY

FORM 227

CONSECUTIVE				
NAME EAST-WEST DAIRYMENS ASS'N.				
ADDRESS NEWMAN, CALIFORNIA				DWG. NO. 8797-H
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	(2) 125 HP Bigelow Boiler			
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME E. H. EDWARDS CO.				
ADDRESS SO. SAN FRANCISCO, CAL.				DWG. NO. 5020-4
APPLIED TO	BOILER OR FURN. HEATING FURNACE	CLASS	SETTING	DATE 2-6-33
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME				EMPORIUM-CAPWELL COMPANY
ADDRESS				SANTA CLARA, CALIF.
DWS. NO.				No. Dwg.
APPLIED TO				DATE
AMERICAN INCINERATOR				10-3-56
M. P.	SOILER OR FURN.	CLASS	SETTING	CONT. NO.
	OPER. PRESS.	FURN. WIDTH	HOW FIRED	6566
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'D. NO.
				6566
GENERAL ASSEM.	STEEL ASSEM.	BRACKET ASSEM.	CASING ASSEM.	MADE BY
SH.	SH.	SH.	SH.	CNKO. BY
MISCELLANEOUS	BLR. STEEL DRILL.	BRACKET STOP-OFFS	STEEL DETAILS	
SH.	SH.	SH.	SH.	
INSUL. DETAILS	ANCHOR BOLT PLAN	CASING DETAILS		
SH.	SH.	SH.		

FORM 117



CONSECUTIVE				
NAME <b>EMPORIUM CAPWELL WAREHOUSE</b>				
ADDRESS <b>OAKLAND, CALIFORNIA</b>				DWG. NO. <b>13198</b>
APPLIED TO <b>ONE AMERICAN 600 LB MIXED RUBBISH INCINERATOR</b>				DATE <b>9-7-55</b>
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. <b>6348</b>
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. <b>6348</b>
GENERAL ASSEM. SN.	STEEL ASSEM. SN.	BRACKET ASSEM. SN.	CASING ASSEM. SN.	MADE BY
				CHKD. BY
MISCELLANEOUS SN.	BLR. STEEL DRILL SN.	BRACKET STOP-OFFS SN.	STEEL DETAILS SN.	
INSUL. DETAILS SN.	ANCHOR BOLT PLAN SN.	CASING DETAILS SN.		

FORM 227

CONSECUTIVE				
NAME <b>FELICE AND PERRELI CANNING COMPANY</b>				
ADDRESS <b>RICHMOND MERCED, CALIFORNIA</b>				DWG. NO. <b>12658</b>
APPLIED TO <b>ONE BIGELOW BLR. WITH E.A. CORNELLY BURNERS</b>			SETTING	DATE <b>10-22-51</b>
H.P. <b>500</b>	OPER. PRESS. <b>160 #</b>	FURN. WIDTH <b>9'-6"</b>	HOW FIRED <b>CORNELLY BURNERS</b>	CONT. NO. <b>5676</b>
NO. SETTINGS <b>1</b>	HANDING <input checked="" type="checkbox"/>	T.P. NO. <input checked="" type="checkbox"/>	AUXIL. FIRING <input checked="" type="checkbox"/>	REQ'N. NO. <b>5676</b>
GENERAL ASSEM. SH. <b>1-2</b>	STEEL ASSEM. SH. <b>3</b>	BRACKET ASSEM. SH. <b>3</b>	CASING ASSEM. SH. <input checked="" type="checkbox"/>	MADE BY <b>E.E.</b> CHKD. BY <b>C.W.</b>
MISCELLANEOUS SH. <input checked="" type="checkbox"/>	BLR. STEEL DRILL. SH. <b>4</b>	BRACKET STOP-OFFS SH. <b>2</b>	STEEL DETAILS SH. <b>5-6</b>	
INSUL. DETAILS SH. <input checked="" type="checkbox"/>	ANCHOR BOLT PLAN SH. <b>4</b>	CASING DETAILS SH. <input checked="" type="checkbox"/>		

FORM 227

CONSECUTIVE

NAME FRUIT GROWERS SUPPLY CO.

ADDRESS SUSANVILLE, CALIFORNIA

DWG. NO.  
TP-4515

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	12-15-50
NO. SETTINGS	HANDING	T. P. NO. 4515	AUXIL. FIRING	CONT. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

005035

CONSECUTIVE

NAME **FRUIT GROWERS SUPPLY CO.**

ADDRESS **SUSANVILLE, CALIFORNIA**

DWG. NO.

**8746**

APPLIED TO **STIRLING BLR. HOC FUEL**

SETTING

DATE

**2-5-38**

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SN.	STEEL ASSEM. SN.	BRACKET ASSEM. SN.	CASING ASSEM. SN.	MADE BY
				CHKD. BY
MISCELLANEOUS SN.	BLR. STEEL DRILL. SN.	BRACKET STOP-OFFS SN.	STEEL DETAILS SN.	
INSUL. DETAILS SN.	ANCHOR BOLT PLAN SN.	CASING DETAILS SN.		

FORM 227

005036

CONSECUTIVE

NAME GALLAND MERCANTILE LAUNDRY CO.

ADDRESS SAN FRANCISCO, CALIFORNIA

DWG. NO.  
7288

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	5-26-37
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	CONT. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME GALLAND MERCANTILE LAUNDRY				
ADDRESS SAN FRANCISCO, CALIFORNIA				DWG. NO. 8753
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
		BADENHAUSEN BLR.		DATE 3-29-38
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 2767
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME GLOBOLOY METALS

13799

ADDRESS OAKLAND, CALIFORNIA

DWG. NO.

APPLIED TO	BOLLER OR FURN.	CLASS	SETTING	DATE
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SN.	STEEL ASSEM. SN.	BRACKET ASSEM. SN.	CASING ASSEM. SN.	MADE BY
MISCELLANEOUS SN.	BLR. STEEL DRILL. SN.	BRACKET STOP-OFFS SN.	STEEL DETAILS SN.	CNKD. BY
INSUL. DETAILS SN.	ANCHOR BOLT PLAN SN.	CASING DETAILS SN.		

FORM 227

CONSECUTIVE

NAME GOLDEN STATE MILK CO., LTD.

DWG. NO.

ADDRESS LOLITA, CALIFORNIA

6441 II  
DATE

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 2492
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227



CONSECUTIVE				
NAME GRANDE RONDE PINE CO.				
ADDRESS CHESTER, CALIF.				DWG. NO. 9887
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
STIRLING BLR. REF. FURN.				DATE 6-19-42
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 3187
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 3449
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		
see; Collins Pine Co.				
FORM 227				

CONSECUTIVE				
NAME <b>HAMMOND LITTLE RIVER LUMBER CO.</b>				
ADDRESS <b>SAMOA, CALIFORNIA</b>				DWG. NO. <b>5555</b>
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 527

CONSECUTIVE

NAME **HASSLER LUMBER COMPANY**

ADDRESS **TRUCKEE, CALIFORNIA**

DWG. NO.  
**12045**

APPLIED TO **84" x 18'-0" H.R.T. BLR.** BOILER OR FURN. CLASS SETTING DATE  
**3-5-48**

H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. <b>4184</b>
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. <b>4924</b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY  CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME H. J. HEINZ COMPANY				
ADDRESS TRACY, CALIF.				DWG. NO. 11571
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
B & W INTEGRAL BLR.				DATE 7-30-45
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 3517
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REG'N. NO. 4314
GENERAL ASSEM. SH. 1, 2, 3 & 4.	STEEL ASSEM. SH. 10, 11, & 13.	BRACKET ASSEM. SH. 9 & 10	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH. 7	BRACKET STOP-OFFS SH. 12Q	STEEL DETAILS SH. 14-19 inc.	CHKD. BY
INSUL. DETAILS SH. 5Q & 6Q	ANCHOR BOLT PLAN SH. 8	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME **HERCULES POWDER COMPANY**

ADDRESS **HERCULES, CALIFORNIA**

DWS. NO.  
**14279**

APPLIED TO **(1) Secondary Reformer, Transfer Line & Ammonia**

DATE  
**8-25-65**

H. P. OPER. PRESS. FURN. WIDTH **NOV. FURN. Converter** CONT. NO.  
**65-7180**

NO. SETTINGS HANDING T.P. NO. AUXIL. FIRING REQ'N. NO.

GENERAL ASSEM. SH. STEEL ASSEM. SH. BRACKET ASSEM. SH. CASING ASSEM. SH. MADE BY

CHKD. BY

MISCELLANEOUS SH. BLR. STEEL DRILL. SH. BRACKET STOP-OFFS SH. STEEL DETAILS SH.

INSUL. DETAILS SH. ANCHOR BOLT PLAN SH. CASING DETAILS SH.

FORM 127

CONSECUTIVE				
NAME HOLLY SUGAR CORPORATION				
ADDRESS ALVARADO, CALIFORNIA				DWG. NO. 12730
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
ONE		SUGAR BEET PULP DRYING FURNACE		DATE 4-29-52
H. P.	OPER. PRESS.	FURN. WIDTH 11'-0	HOW FIRED GAS	CONT. NO. 5751
NO. SETTINGS ONE	HANDING	T.P. NO.	AUXIL FIRING	REQ'N. NO. 5751
GENERAL ASSEM. SH. 2 & 3	STEEL ASSEM. SH. 4	BRACKET ASSEM. SH. 4	CASING ASSEM. SH.	MADE BY LEB
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. 5 & 6 & 7	CHKD. BY C.W.
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. 1	CASING DETAILS SH.		

FORM 227

Form 122-1000-4-31	
HOLLY SUGAR Co.	
ALVARADO - CAL	
For	DRAWING NO.
5527-H PROP. ASSY.	DATA NO.
	CONTRACT NO.
	DATE DRAWN

CONSECUTIVE				
NAME <b>Holly Sugar Corp.</b>				
ADDRESS <b>Hamilton City, California</b>				DWG. NO. <b>14590</b>
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	<b>(1) B-L 100/M Circular Hot Air Furn.</b>			<b>3-19-68</b>
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
				<b>8-7045-0</b>
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
				<b>8-7045-0</b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME Holly Sugar Corporation				
ADDRESS Tracy, California				DWG. NO. 14601
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
B-L Circular		40,000,000 Btu/hr Furnace		
DATE		4-30-68		
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
				8-7072-2
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
				8-7072-2
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227



CONSECUTIVE

NAME HUMBLE OIL & REFINING CO.

ADDRESS Benicia, California

DWT. NO.  
14525

APPLIED TO (I) Atmospheric Pipestill Furn. (Alcorn) DATE F-101  
(1) Vacuum II II II F-102

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CERT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REG'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

<b>CONSECUTIVE</b>				
<b>NAME</b> Humble Oil				
<b>ADDRESS</b> Benecia, California				<b>DWS. NO.</b> 14571
<b>APPLIED TO</b>		<b>BOILER OR FURN.</b>	<b>CLASS</b>	<b>SETTING</b>
		Castable Construction		
		DATE 12-14-67		
<b>N. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b> 7-7232-5
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T. P. NO.</b>	<b>AUXIL. FIRING</b>	<b>REQ'N. NO.</b> 7-7232-5
<b>GENERAL ASSEM.</b> SH.	<b>STEEL ASSEM.</b> SH.	<b>BRACKET ASSEM.</b> SH.	<b>CASING ASSEM.</b> SH.	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS</b> SH.	<b>SLR. STEEL DRILL.</b> SH.	<b>BRACKET STOP-OFFS</b> SH.	<b>STEEL DETAILS</b> SH.	
<b>INSUL. DETAILS</b> SH.	<b>ANCHOR BOLT PLAN</b> SH.	<b>CASING DETAILS</b> SH.		

<b>CONSECUTIVE</b>				
<b>NAME</b> Humble Oil and Refining Co.				
<b>ADDRESS</b> Benicia, California				<b>DWG. NO.</b> 14571
<b>APPLIED TO</b>		<b>BOILER OR FURN.</b>	<b>CLASS</b>	<b>SETTING</b>
		Transfer Lines		<b>DATE</b> 2-13-68
<b>N. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b> 8-7010-4
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T. P. NO.</b>	<b>AUXIL. FIRING</b>	<b>REQ'N. NO.</b> 8-7010-4
<b>GENERAL ASSEM.</b> SH.	<b>STEEL ASSEM.</b> SH.	<b>BRACKET ASSEM.</b> SH.	<b>CASING ASSEM.</b> SH.	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS</b> SH.	<b>BLR. STEEL DRILL.</b> SH.	<b>BRACKET STOP-OFFS</b> SH.	<b>STEEL DETAILS</b> SH.	
<b>INSUL. DETAILS</b> SH.	<b>ANCHOR BOLT PLAN</b> SH.	<b>CASING DETAILS</b> SH.		

FORM 227

CONSECUTIVE

NAME *HUMBLE OIL CO*

ADDRESS *BENICIA - CALIFORNIA*

DWG. NO.

*14525*

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	<i>7-7117-7</i>
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.	
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.		
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227

CONSECUTIVE

NAME *KIMBERLY CLARK CORP.*

ADDRESS *ANDERSON CALIF. (ONE)*

DWG. NO.

*12047*

APPLIED TO *500 HP PSMD BLR*

BOILER OR FURN.

CLASS

SETTING

DATE

*3-29-48*

CONT. NO.

*3930*

MADE BY

CHKD. BY

RECN NO

*4896*

*SHEET 1  
2  
24  
30*

*THIS WAS FORMERLY  
RALPH SMITH LUMBER*

FORM 227				
CONSECUTIVE				
NAME <b>LETTERMAN GEN. HOSPITAL</b>				
ADDRESS <b>PRESIDIO, SAN FRANCISCO, CALIF.</b>				
APPLIED TO				DWG. NO. <b>TP-3554H</b>
BOILER OR FURN.			CLASS	SETTING
DATE <b>10-30-41</b>				
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		
FORM 227				

CONSECUTIVE

NAME **LINDE COMPANY**

ADDRESS **SACRAMENTO, CALIFORNIA**

DWG. NO.  
**13944**

APPLIED TO				DATE
<b>F. W. PRIMARY REFORMER</b>				<b>10-23-62</b>
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE			
NAME			
ADDRESS			
APPLIED TO	BOILER OR FURN.	CLASS	SETTING
LORENZ LUMBER CO.			
BURNLEY, CALIFORNIA			
			DWG. NO. 15024
			DATE 5-10-74
			CONT. NO. 704-125-3
			MADE BY B.W.
			CHKD. BY
DUTCH OVEN ARCH LIPTAK S.S.			
FORM 227			



CONSECUTIVE

NAME *MC. GLELLAN AIR BASE* 12927

ADDRESS *MC. GLELLAN, CALIFORNIA* DWS. NO.

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
*SCRAP ALUMINUM MELTING FURN. SINGLE 6-9-53*

N. P.	OPER. PRESS.	FURN. WIDTH <i>9'-0"</i>	HOW FIRED	CONT. NO. <i>5981</i>
NO. SETTINGS <i>1</i>	HANDING	T. P. NO.	AUXIL FIRING	REQ'N. NO. <i>5981</i>
GENERAL ASSEM. SH. <i>1</i>	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY <i>R. U.</i> CHKD. BY <i>J. M. C.</i>
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

NAME	McCloud River Lumber Co	DATE	5-24-37
ADDRESS	McCloud, California	REQ.	2782
APPLIED TO	1117H H.F.F. - P.S.M.D. - BLR	CONT.	
GEN. ASSY.	7286-7287		
STEEL ASSY.	8256	CASING ASSY.	
BRACKET ASSY.	7292	BRKT. STOP OFFS.	7293-Q
ANCHOR BOLTS	8252	BLR. STEEL DRILLING	
STEEL DETAILS	8255-8261-8262-8263		
CASING DETAILS			

Form E4-503-1-28

**MS CLOUD RIVER LBR. CO**  
**MSCLOUD-CAL.**

For

**ASSEM. L-2169**  
**STEEL DET. L-2283**  
**" " L-2284-Q**

*REQ*

*1381*

DRAWING NO.

DATA NO.

CONTRACT NO.

**887**

DATE DRAWN

**11-6-28**

CONSECUTIVE

NAME MC CLOUD RIVER LUMBER

ADDRESS MC CLOUD, CALIFORNIA

DWG. NO.

8702

APPLIED TO

752 H.P. KIDWELL BLR. CLASS 1838

DATE

10-22-37

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 2261
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 2763
GENERAL ASSEM. SH. 8702, 8726	STEEL ASSEM. SH. 8735	BRACKET ASSEM. SH. 8727-H	CASING ASSEM. SH.	MADE BY  CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH. 8740-H	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. 8733, 34.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH. 8737, 39H		

FORM 227

005060

<b>CONSECUTIVE</b>				
<b>NAME</b> MACAULAY FOUNDRY				<b>DWG. NO.</b>
<b>ADDRESS</b> OAKLAND, CALIF.				
<b>APPLIED TO</b>		<b>CLASS</b>	<b>SETTING</b>	<b>DATE</b>
HEAT & CONTROL		STRESS RELIEVING SYSTEM		6-7-60
<b>H. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b>
				7232
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T.P. NO.</b>	<b>AUXIL. FIRING</b>	<b>REQ'N. NO.</b>
				7232
<b>GENERAL ASSEM.</b>	<b>STEEL ASSEM.</b>	<b>BRACKET ASSEM.</b>	<b>CASING ASSEM.</b>	<b>MADE BY</b>
SH.	SH.	SH.	SH.	
				<b>CHKD. BY</b>
<b>MISCELLANEOUS</b>	<b>BLR. STEEL DRILL.</b>	<b>BRACKET STOP-OFFS</b>	<b>STEEL DETAILS</b>	
SH.	SH.	SH.	SH.	
<b>INSUL. DETAILS</b>	<b>ANCHOR BOLT PLAN</b>	<b>CASING DETAILS</b>		
SH.	SH.	SH.		

FORM 227

CONSECUTIVE		NAME MASONITE CORPORATION			B&W Cont. H1521
ADDRESS UKIAH, CALIFORNIA		12431			DWG. NO.
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE	
I	B & W Low Hd.	H-4	21 Single	5-17-50	
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
		10'-6"	oil fired	5335	
NO. SETTINGS	HANDING	T. NO.	AUXIL. FIRING	REQ'N. NO.	
ONE	L.H.	4461		5335	
GENERAL ASSEM.	STEEL ASSEM.	BRACKET ASSEM.	CASING ASSEM.	MADE BY	
SH. 1, 2	SH. 1, 2	SH. 1, 2	SH.	R.H.L.	
				CHKD. BY	
				TODOR	
MISCELLANEOUS	BLR. STEEL DRILL.	BRACKET STOP-OFFS	STEEL DETAILS		
SH.	SH. 4, 5	SH. 4, 5	SH. 4, 5		
INSUL. DETAILS	ANCHOR BOLT PLAN	CASING DETAILS			
SH.	SH. 4, 5	SH.			

FORM 227

CONSECUTIVE

NAME MATMOR CANNING CO.

ADDRESS WOODLAND, CALIF.

DWG. NO.

9876

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	STIRLING BLR.	GAS FIRED		12-18-41
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
				3447
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 217

CONSECUTIVE

NAME MICHIGAN CALIFORNIA LUMBER CO.

DWG. NO.

ADDRESS CAMINO, CALIF.

5076

APPLIED TO

BOILER OR FURN.

CLASS

SETTING

DATE

10-16-33

H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227



CONSECUTIVE				
NAME MICHIGAN CALIFORNIA LUMBER CO.				
ADDRESS CAMINO CALIF.				DWG. NO. 12118
APPLIED TO BOILER OR FURN. CLASS SETTING DATE				
844 HP P.S.M.D. Boilers				
H. P.	OPER. PRESS.	FURN. WOOD	NON FIRED	CONT. NO.
			Dutch Oven	5350
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REG. N. NO. 5350
GENERAL ASSEM. SH. 1	STEEL ASSEM. SH. 2	BRACKET ASSEM. SH. 3-H, 1-H	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH. 2	BRACKET STOP-OFFS SH. 4-H	STEEL DETAILS SH. 5-Q	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		
FORM 227				

NAME MOHAWK PETROLEUM CORP.

ADDRESS BAKERSFIELD, CALIF.

DWG. NO.  
11197

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
RILEY 3 DRUM		YKL	24	BLF.	3-10-43
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REG'N. NO.	
GENERAL ASSEM.	STEEL ASSEM.	BRACKET ASSEM.	CASING ASSEM.	MADE BY	
SH. 1 & 2	SH. 3	SH. 4	SH.	CHKD. BY	
MISCELLANEOUS	BLR. STEEL DRILL.	BRACKET STOP-OFFS	STEEL DETAILS		
SH.	SH. 3	SH. 5-H	SH 7 to 9 inc.		
INSUL. DETAILS	ANCHOR BOLT PLAN	CASING DETAILS			
SH. 6-Q & 8238-H	SH.	SH.			

FORM 127

CONSECUTIVE

NAME MOHAWK PETROLEUM CO.

ADDRESS BAKERSFIELD, CALIF.

DWS. NO.  
9895

APPLIED TO	3	BOILER OR FURN. YARROW BLRS.	CLASS	SETTING	DATE 2-5-43
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REG'N. NO. 3455	
GENERAL ASSEM. SH. 1-6	STEEL ASSEM. SH. 3 & 4	BRACKET ASSEM. SH. 7	CASING ASSEM. SH.	MADE BY	
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH. 5	STEEL DETAILS SH.	CHKD. BY	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. 2-H	CASING DETAILS SH.	FORM 227		

005067

CONSECUTIVE				
NAME MOHAWK PET. CO.				
ADDRESS BAKERSFIELD, CALIF.				DWG. NO. 5551
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
		OIL HEATER		
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 2384
GENERAL ASSEM. SH.	STEEL ASSEM. SH. 5548	BRACKET ASSEM. SH. 5559	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	Casting Details 5553
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. 5552-H	CASING DETAILS SH.		

FORM 227

Form 119-1000-8-30

MOHAWK PETROLEUM CO  
BAKERSFIELD, CAL.

1936

For TUB STILL D-13

DRAWING NO.

STEEL ASSY. G460 BKT ASSY G485

DATA NO.

DETAILS TOP STEEL PLATFORM - 1011

CONTRACT NO.

ARCH & ROOF SUPP STEEL 1012 ARCH ASSY G487

STEEL DET. 1013-1016 DET. WALL STEEL 1014-F

DATE DRAWN

DET. WALL STEEL 1014 " " 1016-F

DET. STEEL CASING 1017

CASING ASSY. 1017-H ASSY. WALL TILE G462

FOUND. & ANCHOR BOLTS - G459-H

TILE DET. G464-H

CASTING DET. G480-5553-2

Form 119-1000-8-30

MOHAWK PETROLEUM Co BAKERSFIELD, CAL	1936
For TUBE STILL D-12 & D-13	DRAWING NO.
STEEL ASSY G461 (BEK ASSY G486)	DATA NO.
CASING ASSY - 1017-H (ARCH ASSY G487)	CONTRACT NO.
ARCH STEEL - 1001 (ASSY WALL COLS 1007)	DATE DRAWN
WALL COLS - 1002 " " " " " " " "	DATE DRAWN
PLATFORM STEEL 1003	DATE DRAWN
DIGLOW WALL COLS - 1004 (OVER)	DATE DRAWN
WALL STEEL - 1005	DATE DRAWN
STEEL DETAILS - 1006, 1007-1008-1009-1010	DATE DRAWN

4207

FOUND. & ANCHOR BOLTS - G454
TILE DET. G464-H
BURNER TILE DET. G465-Q
CASTING DET. G480-5553-2

CONSECUTIVE

NAME C.C. MOORE & CO. ENGINEERS

ADDRESS SAN FRANCISCO, CALIF.

DWG. NO.

5540

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO. 64	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	see: Long Bell Lumber Co.
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME NATIONAL STEEL CONSTRUCTION

ADDRESS NEWARK, CALIFORNIA

DWG. NO.

14842

APPLIED TO

BOILER OR FURN.

CLASS

SETTING

DATE

701-135-1

H. P. <u>FERRO</u>	OPER. PRESS. <u>SCOT TYPE</u>	FURN. WIDTH <u>FURNACE</u>	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227



CONSECUTIVE

NAME OAKLAND CALIFORNIA TONEL COMPANY

ADDRESS OAKLAND, CALIFORNIA

DWG. NO.  
12990

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
CASEY HELGES BLR. REVAMP WITH COEN BURN 11-18-53

H. P.	OPER. PRESS.	FURN. WIDTH 7'-10" & 8'-7"	HOW FIRED COEN BURN'S	CONT. NO. 6058
NO. SETTINGS ONE	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 6058
GENERAL ASSEM. SH. 1	STEEL ASSEM. SH. 1	BRACKET ASSEM. SH. 1	CASING ASSEM. SH.	MADE BY J. G.
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. 2	CHKD. BY KOOS
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. 1	CASING DETAILS SH.		

FORM 227

CONSECUTIVE			
NAME <i>OCCIDENTAL CHEMICAL CO.</i>			
ADDRESS <i>HANFORD, CALIFORNIA</i>		DWG. NO. <i>15022</i>	
APPLIED TO	BOILER OR FURN.	CLASS	SETTING
	<i>CATALYTIC COMBUSTION</i>		DATE <i>4-29-74</i>
<i>VESSEL</i>			CONT. NO. <i>704-100-4</i>
			MADE BY <i>L. A. OFFICE</i>
<i>CASTABLE LINING</i> <i>3" GREEN CAST 99</i> <i>5" V.S.L. 50</i> <i>REFRACTORY DOME GRID</i>			CHKD. BY

CONSECUTIVE

NAME *OCCIDENTAL CHEMICAL*

ADDRESS *HANFORD, CALIFORNIA*

DWG. NO.

*15096*

APPLIED TO

BOILER OR FURN.

CLASS

SETTING

DATE

*8-18-75*

CONT. NO.

*705-1418*

MADE BY

*L.A. Officer*

CHKD. BY

*SECONDARY REFORMER  
TRANSFER LINES*

FORM 227

CONSECUTIVE			
NAME <i>OCCIDENTAL CHEMICAL</i>		DWG. NO. <i>15099</i>	
ADDRESS <i>LATHROP, CALIFORNIA</i>		DATE <i>8-18-75</i>	
APPLIED TO	BOILER OR FURN.	CLASS	SETTING
<i>SECONDARY REFORMER TRANSFER LINE</i>		CONT. NO. <i>705-156-0</i>	
		MADE BY <i>L.A. OFFICE</i>	
		CHKD. BY	
		FORM 227	

CONSECUTIVE				
NAME PACIFIC GAS & ELECTRIC				
ADDRESS HERNDON, CALIFORNIA				DWG. NO. 3884
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
B&W BLR. OIL & GAS				DATE 12-17-30
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MIRCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	Plan Elev. 3885.
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		Front Elev. 3886.
FORM 227				

CONSECUTIVE

NAME PACIFIC GAS & ELECTRIC CO.

ADDRESS STA. "A" SAN FRANCISCO, CALIF.

DWG. NO.  
B-2938-H

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
		B&W BOILER			3-25-30
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	REQ'N. NO.
				1266	
NO. SETTINGS	HANDING	T. P. NO. 4530-4537	AUXIL. FIRING		
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	
				CHKD. BY	
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	(over)	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227

WITH ECONOMIZER

B-2938-H

3354-H

" " & Reheater B-3181 & 3353

Std. Arch Steel 3379-Q

Steel Reheater 3139-Q, 3367-Q, 3368-Q, 3369-H, 3396-Q.

CONSECUTIVE				
NAME PACIFIC LUMBER CO.				5547
ADDRESS SOOTIA, CALIFORNIA				DWG. NO. 5547-H
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANGING	T. P. NO.	AUXIL. FIRING	REG'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME PACIFIC LUMBER CO.

5547

ADDRESS SOOTIA, CALIFORNIA

DWG. NO.  
5541-H

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.	
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	
				CHKD. BY	
MIRCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.		
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227



CONSECUTIVE				
NAME <b>PACIFIC MFG. CO.</b>				
ADDRESS <b>BERKELEY, CALIF.</b>				DWG. NO. <b>9826</b>
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE <b>11-21-39</b>
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME <b>PACIFIC MANUFACTURING CO.</b>				
ADDRESS <b>SANTA CLARA, CALIF.</b>				DWG. NO. <b>10813</b>
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
		<b>BADENHAUSEN BOILER</b>		
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	DATE <b>4-30-41</b>
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	CONT. NO. <b>2836</b>
GENERAL ASSEM. SH. <b>1</b>	STEEL ASSEM. SH. <b>2</b>	BRACKET ASSEM. SH. <b>2</b>	CASING ASSEM. SH.	REQ'N. NO. <b>3479</b>
				MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH. <b>6</b>	BRACKET STOP-OFFS SH. <b>5-H</b>	STEEL DETAILS SH. <b>3 &amp; 4</b>	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

CONSECUTIVE

NAME PACIFIC MFG. CO.

ADDRESS SANTA CLARA, CALIFORNIA

DWG. NO.  
9834

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
		BIGELOW TYPE "F" BLR.			3-1-40
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
314				2610	
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.	
				3183	
GENERAL ASSEM.	STEEL ASSEM.	BRACKET ASSEM.	CASING ASSEM.	MADE BY	
SH. 1, 2, 3, 4.	SH. 5	SH.	SH.	CHKD. BY	
MISCELLANEOUS	BLR. STEEL DRILL.	BRACKET STOP-OFFS	STEEL DETAILS	9834 Arch & Wall Cast- ings.	
SH.	SH.	SH.	SH. 6 & 7		
INSUL. DETAILS	ANCHOR BOLT PLAN	CASING DETAILS			
SH.	SH.	SH.			

FORM 227

CONSECUTIVE

NAME				PACIFIC VEGETABLE OIL CORPORATION	DWG. NO.
ADDRESS				SAN FRANCISCO, CALIFORNIA	12727
APPLIED TO		BOILER	CLASS	SETTING	DATE
		Collins Blr.			7-25-52
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
	5,000 Lbs.	8' - 5"	SpreaderStkr.	5777	
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.	
One				5777	
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	
				JB	
				CHKD. BY	
				MTB	
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.		
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227

<b>CONSECUTIVE</b>				
NAME <b>PALOMA OPERATORS - WESTERN GULF OIL CO.</b>				
ADDRESS <b>KERN COUNTY, CALIFORNIA</b>				DWG. NO. <b>11353</b>
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
		<b>CYCLING PLANT F1 &amp; F2</b>		DATE <b>8-19-43</b>
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. <b>3366</b>
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. <b>4038</b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME PARAGON PLYWOOD, INC.				
ADDRESS CRESCENT CITY, CALIFORNIA				DWG. NO. 1244
APPLIED (19)	BOILER OR FURN.	CLASS	SETTING	DATE
	650 HP GARRETT & SHAFER BOILER			10-9-51
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
			Wood Refuse	5349
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
				5349
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

(Was Tidewater Oil Co.)

NAME Phillips Petroleum Co.

ADDRESS Avon, California

DWG. NO. 13902

APPLIED ONE B-L 180,000,000 BTU/HR CIRCULAR HOT AIR FURN. DATE 10-22-62

N. P. HAUCK D.B.G.	OPER. PRESS. -1120A GAS	FURN. WIDTH BURNER	HOW FIRED	CONT. NO. 8022
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 8022
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 627

CONSECUTIVE

(was Tidewater Oil Co)

NAME		Phillips Petroleum		DWG. NO.	13841
ADDRESS		Avon California		DATE	11-10-61
APPLIED TO		BOILER OR FURN.	CLASS	SETTING	
		Seals Steam	Methane	Reformer	
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	7572
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.	7572
GENERAL ASSEM. SN.	STEEL ASSEM. SN.	BRACKET ASSEM. SN.	CASING ASSEM. SN.	MADE BY	
				CHKD. BY	
MISCELLANEOUS SN.	BLR. STEEL DRILL SN.	BRACKET STOP-OFFS SN.	STEEL DETAILS SN.		
INSUL. DETAILS SN.	ANCHOR BOLT PLAN SN.	CASING DETAILS SN.			

FORM 217



CONSECUTIVE				
NAME <b>PITTSBURGH PLATE GLASS</b>				
ADDRESS <b>Fresno, California</b>				DWG. NO. <b>14261</b>
APPLIES TO <b>One 58' Gas Hearth Tempering Line Furnace</b>		BOILER OR FURN.	CLASS	SETTING
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	DATE <b>6-30-65</b>
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	CONT. NO. <b>65-7141</b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	REG'N. NO.
				MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. <b>Also</b>	<b>8-7200-5</b>
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME RESERVE OIL & CHEMICAL COMPANY				
ADDRESS <u>1. FRESNO, CALIF.</u>				DWG. NO. 14170
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	Selas Heater			11-9-64
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 64-7235
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME <i>ROUNDS KILPATRICK LUMBER CO.</i>				
ADDRESS <i>CLOYERDALE, CALIFORNIA</i>				DWG. NO. <i>TP-9360</i>
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	<i>H.R.T.</i>			<i>6-23-99</i>
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
		<i>13'6"</i>		
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
		<i>9360</i>		
GENERAL ASSEM. SH. <i>1</i>	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY <i>TODOR</i> CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME SACRAMENTO BOX & LUMBER CO.

OWG. NO.

ADDRESS WOODLEAF, CALIFORNIA

12953

APPLIED TO H.P.	BOILER OR FURN. OPER. PRESS.	CLASS FURN. WIDTH	SETTING HOW FIRED	DATE CONT. NO.
(2)	TWO H.P.T.	BOILERS NOS 7 & 8	SET IN BATTERY	8-12-53 6002

NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
		6'-9" x 7'-3"		6002

GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY CHKD. BY
1, 2		3		H.W.

MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
			4	

INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME SACRAMENTO BOX & LUMBER COMPANY				
ADDRESS WOODLEAF, CALIFORNIA				DWG. NO. 12700
APPLIED TO (2) BOILER OR FURN. CLASS SETTING BATTERY SET H.R.T. BOILERS				DATE 2-6-52
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 5703
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'D NO. 5703
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME **SAFeway STORE**

ADDRESS **WALNUT CREEK, CALIFORNIA**

DWG. NO.  
**13078**

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
		<b>AMERICAN INCINERATOR</b>		<b>SINGLE</b>	<b>9-1-54</b>
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
		<b>4'-0"</b>		<b>6185</b>	
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.	
<b>ONE</b>				<b>6185</b>	
GENERAL ASSEM. SH. <b>1</b>	STEEL ASSEM. SH. <b>1</b>	BRACKET ASSEM. SH. <b>1</b>	CASING ASSEM. SH.	MADE BY <b>PETERS</b>	CHKD. BY <b>R.T.B.</b>
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.		
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227

<b>CONSECUTIVE</b>				
<b>NAME</b> A. SCHILLING & CO.				
<b>ADDRESS</b> SAN FRANCISCO, CALIFORNIA				<b>DWG. NO.</b> 5533-H
<b>APPLIED TO</b>	<b>BOILER OR FURN.</b>	<b>CLASS</b>	<b>SETTING</b>	<b>DATE</b>
<b>H. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b>
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T. P. NO.</b>	<b>AUXIL. FIRING</b>	<b>REQ'N. NO.</b>
<b>GENERAL ASSEM.</b> SH.	<b>STEEL ASSEM.</b> SH.	<b>BRACKET ASSEM.</b> SH.	<b>CASING ASSEM.</b> SH.	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS</b> SH.	<b>BLR. STEEL DRILL.</b> SH.	<b>BRACKET STOP-OFFS</b> SH.	<b>STEEL DETAILS</b> SH.	
<b>INSUL. DETAILS</b> SH.	<b>ANCHOR BOLT PLAN</b> SH.	<b>CASING DETAILS</b> SH.		

FORM 227

<b>CONSECUTIVE</b>				
<b>NAME SHELL OIL COMPANY</b>				
<b>ADDRESS MARTINEZ, CALIFORNIA</b>				<b>DWG. NO.</b> <b>6428-H</b>
<b>APPLIED TO</b>	<b>BOILER OR FURN.</b>	<b>CLASS</b>	<b>SETTING</b>	<b>DATE</b>
	<b>DUBBS FURNACE</b>			
<b>H. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b>
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T.P. NO.</b>	<b>AUXIL. FIRING</b>	<b>REQ'N. NO.</b>
<b>GENERAL ASSEM.</b>	<b>STEEL ASSEM.</b>	<b>BRACKET ASSEM.</b>	<b>CASING ASSEM.</b>	<b>MADE BY</b>
<b>SH.</b>	<b>SH.</b>	<b>SH.</b>	<b>SH.</b>	<b>CHKD. BY</b>
<b>MISCELLANEOUS</b>	<b>BLR. STEEL DRILL.</b>	<b>BRACKET STOP-OFFS</b>	<b>STEEL DETAILS</b>	
<b>SH.</b>	<b>SH.</b>	<b>SH.</b>	<b>SH.</b>	
<b>INSUL. DETAILS</b>	<b>ANCHOR BOLT PLAN</b>	<b>CASING DETAILS</b>		
<b>SH.</b>	<b>SH.</b>	<b>SH.</b>		

FORM 217



EXECUTIVE

(Was Tidewater Associated Oil Co.)

ME Phillips Petroleum Co.

DRESS Avon California

DWS. NO. 11405

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
U.O.P. REGENERATOR & FLUE GAS PIPE					7-3-44
R.P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	3406
CO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	RES'N. NO.	4093
GENERAL ASSEM.	STEEL ASSEM.	BRACKET ASSEM.	CASING ASSEM.	MADE BY	
2,3,4,5,6 7,8	9,10,11 12,14,13 15,16	SH.	SH.	CHKD. BY	
MISCELLANEOUS	BLR. STEEL DRILL	BRACKET STOP-OFFS	STEEL DETAILS	(OVER)	FORM 227
	SH.	SH.	SH. 17 thru 29 incl.		
MUL. DETAILS	ANCHOR BOLT PLAN	CASING DETAILS			
	SH.	SH.			

ORIENTATION DIAGRAM, sh. 1  
 TITLE DETAILS DWG. 11412, Shts. 2,3  
 CASTING DETAILS DWG. 11412 Sht. 1  
 PIPE DETAIL TP-3644 Sht. 11

All sets of dwg. to have regenerator & pipe lining specs. included, also TD-15, tile & casting details (see req.) & all reqs.

Revised restriction grid detail, sht. 30-H

CONSECUTIVE

NAME SHELL OIL COMPANY				DWG. NO. 14203
ADDRESS Martinez, California				DATE 3-12-65
APPLIED TO BOILER OR FURN. CLASS SETTING 29 Direct Fired Foster Wheeler Heaters				CONT. NO. 65-7064 A&B
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	REG'N. NO.
		Units F-57 and F-58		
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

CONSECUTIVE

NAME SHELL OIL COMPANY

ADDRESS Martinez, California

DWG. NO.  
14202

APPLIED TO SOILER OR FURN. CLASS SETTING DATE  
E-W Direct Fired Heaters-F-41-A & -B 3-12-65

K. P. OPER. PRESS. FURN. WIDTH HOW FIRED CONT. NO.  
65-7046

NO. SETTINGS HANDING T.P. NO. AUXIL. FIRING REQ'N. NO.  
Two

GENERAL ASSEM. SH. STEEL ASSEM. SH. BRACKET ASSEM. SH. CASING ASSEM. SH. MADE BY

CHKD. BY

MISCELLANEOUS SH. BLR. STEEL DRILL. SH. BRACKET STOP-OFFS SH. STEEL DETAILS SH.

INSUL. DETAILS SH. ANCHOR BOLT PLAN SH. CASING DETAILS SH.

FORM 227

CONSECUTIVE				
NAME SHELL OIL COMPANY				C.O. B.L.R.
ADDRESS Martinez, California				DWG. NO. 14190
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
One Alcorn		CO Gas Fired	F-62 Waste Heat	Boiler
				DATE 2-1-65
N.P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 65-7021
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME SHELL OIL COMPANY				
ADDRESS WADSTROM, CALIFORNIA				DWG. NO. 12821
APPLIED TO Two (2)		BOILER OR FURN.	CLASS	SETTING
Born 26' - 0" Oil Heaters				DATE 11-26-52
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 5853
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 5853
GENERAL ASSEM. SH. 2	STEEL ASSEM. SH. 3	BRACKET ASSEM. SH. 3	CASING ASSEM. SH.	MADE BY RWJ
				CHKD. BY
MISCELLANEOUS SH.	SLR. STEEL DRILL SH. 3	BRACKET STOP-OFFS SH. 4	STEEL DETAILS SH. 4	
INSUL. DETAILS SH. 1	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME SIGNAL OIL & GAS COMPANY

ADDRESS BAKERSFIELD, CALIFORNIA

DWG. NO.

13956

APPLIED TO BOILER OR FURN. CLASS DATE  
30" D.D. PIPE MANIFOLD/Gas waste heat boiler Title City Process 12-18-62

H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
			63-811806	137842
NO. SETTINGS	HANGING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
				7842
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME <b>RALPH SMITH LUMBER COMPANY</b>				
ADDRESS <b>ANDERSON, CALIFORNIA</b>				DWG. NO. <b>12047</b>
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	<b>500 HP P. S. M. D. BOILER</b>			<b>3-18-48</b>
N. P. <b>500</b>	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. <b>3930</b>
NO. SETTINGS	HANDING	T. P. NO. <b>TP-2114 SEATTLE</b>	AUXIL. FIRING	REG'N. NO. <b>4896</b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE		KIMBERLY CLARK CORP.		
NAME RALPH SMITH LUMBER				
ADDRESS ANDERSON, CALIF.				DWG. NO. 12047
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
500 HP. P.S.M.D. BLR.				ONE
				DATE 3-29-48
H.P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 3930
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 4896
GENERAL ASSEM. SH 12047 sh. 1	STEEL ASSEM. SH. 2.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH. 2-H	STEEL DETAILS SH. 3-Q	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227



CONSECUTIVE

NAME <b>RALPH SMITH LUMBER COMPANY</b>				DWG. NO. <b>12102</b>
ADDRESS <b>ANDERSON, CALIFORNIA</b>				DATE
APPLIED TO <b>P. S. M. D. BOILER</b>		CLASS	SETTING	DATE
H. P. <b>680</b>	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. <b>4164</b>
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. <b>4962</b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME SPRECKELS SUGAR COMPANY

ADDRESS Manteca, California

DWG. NO.  
14400

APPLIED TO BOILER OR FURN. CLASS SETTING  
100MM BTU/HR Hot Air Furnace

DATE  
5-27-66

H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 66-8105
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ. NO. 66-8105
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHDR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

005107

CONSECUTIVE				
NAME <b>SPECKLES SUGAR COMPANY</b>				
ADDRESS <b>MANTECA, CALIFORNIA</b>				DWG. NO. <b>6425</b>
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	<b>STIRLING BLS.</b>	<b>5</b>		
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANGING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH. <b>6425, 27.</b>	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

<b>CONSECUTIVE</b>				
<b>NAME SPRECKELS SUGAR COMPANY</b>				
<b>ADDRESS MENDOTA, CALIFORNIA</b>				<b>DWG. NO.</b> <b>13897</b>
<b>APPLIED TO ONE 5-L HOT AIR FURNACE</b>				<b>DATE</b> <b>4-18-62</b>
<b>IN CONNECTION WITH STEARNS-ROGER DRYER</b>				
<b>N. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b> <b>8021</b>
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T. P. NO.</b>	<b>AUXIL. FIRING</b>	<b>REG'N. NO.</b> <b>8021</b>
<b>GENERAL ASSEM.</b> <b>SH.</b>	<b>STEEL ASSEM.</b> <b>SH.</b>	<b>BRACKET ASSEM.</b> <b>SH.</b>	<b>CASING ASSEM.</b> <b>SH.</b>	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS</b> <b>SH.</b>	<b>BLR. STEEL ORILL.</b> <b>SH.</b>	<b>BRACKET STOP-OFFS</b> <b>SH.</b>	<b>STEEL DETAILS</b> <b>SH.</b>	
<b>INSUL. DETAILS</b> <b>SH.</b>	<b>ANCHOR BOLT PLAN</b> <b>SH.</b>	<b>CASING DETAILS</b> <b>SH.</b>		

FORM 227

CONSECUTIVE

NAME **SPECKELS SUGAR DIVN.**

ADDRESS **SAN FRANCISCO, CAL.** DWG. NO. **15328**

APPLIED TO BOILER OR FURN. CLASS SETTING DATE **3-30-81**

CONT. NO. **771-017-3**

MADE BY

CHKD. BY

**HEAT TRANSFER DUCT**

**A.H.F.**  
      
    

FORM 227

CONSECUTIVE

NAME STANDARD LUMBER CO.

ADDRESS SONORA, CAL.

DWG. NO.  
L-3110

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
STIRLING BLR. WITH EXTENSION FURNACE 10-21-29

H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE SULPHUR PLANT REACTION FURNACE

NAME SHELL OIL CO

ADDRESS MARTINEZ, CALIF.

DWG. NO.

15426

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
				9-19-84
				CONT. NO.
				104-131-B
				MADE BY
				CHKD. BY

FORM 227

CONSECUTIVE			
NAME		STANDARD OIL OF CALIFORNIA	
ADDRESS		OILDALE, CALIFORNIA	
APPLIED TO		BOILER OR FURN.	CLASS
LUMMUS HEATER ARCH			
		SETTING	DATE
			4-15-74
			CONT. NO.
			704-066.5
			MADE BY
			B.N.
			CHKD. BY

FORM 227



CONSECUTIVE				
NAME <b>STANDARD OIL OF CALIFORNIA</b>				
ADDRESS <b>RICHMOND, CALIFORNIA</b>				DWG. NO. <b>12385</b>
APPLIED TO <b>Oil Heater</b>		BOILER OR FURN. <b>A-Frame</b>	CLASS <b></b>	SETTING <b></b>
H. P. <b></b>		OPER. PRESS. <b></b>	FURN. WIDTH <b>13'-6 1/4"</b>	HOW FIRED <b>Oil &amp; Gas</b>
NO. SETTINGS <b>Two</b>		HANDING <b></b>	T.P. NO. <b></b>	AUXIL. FIRING <b></b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY <b></b>
				CHKD. BY <b></b>
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME STANDARD OIL OF CALIFORNIA				
ADDRESS Richmond, California				DWG. NO. 14263
APPLIED TO Two (2)		BOILER OR FURN. Xylene Reactors	CLASS	SETTING
DATE 6-30-65				
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 65-8113
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME STANDARD OIL CO. CALIFORNIA

ADDRESS ~~INDIAN~~ RICHMOND, CALIF

DWG. NO.

13961

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
ONE SELAS HEATER 1-11-63

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 63-7012
NO. SETTINGS	HANDING	T.P. NO.	AUXIL FIRING	REQ'N. NO. 63-7012
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	SLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME STANDARD OIL COMPANY OF CALIFORNIA				
ADDRESS RICHMOND, CALIFORNIA				DWG. NO.
				NONE
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
THREE PLATFORM REACTOR LININGS			R-106-107 & 108	12-23-57
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	DATE
INCLUDING COLUMN SKIRT FIREPROOFING.				6782
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
				6782
GENERAL ASSEM.	STEEL ASSEM.	BRACKET ASSEM.	CASING ASSEM.	MADE BY
SH.	SH.	SH.	SH.	
				CHKD. BY
MISCELLANEOUS	BLR. STEEL DRILL.	BRACKET STOP-OFFS	STEEL DETAILS	
SH.	SH.	SH.	SH.	
INSUL. DETAILS	ANCHOR BOLT PLAN	CASING DETAILS		
SH.	SH.	SH.		

FORM 227

CONSECUTIVE				
NAME STANDARD OIL CO. OF CALIFORNIA				
ADDRESS RICHMOND REF. #6 UNIT				DWG. NO. 11700
APPLIED TO BOILER OR FURN. CLASS SETTING				DATE
RILEY BOILERS & PEABODY BURNERS				1-14-47
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 3970
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 4630
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
1	2	2		CHKD. BY
MIRCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. 4-Q	
INSUL. DETAILS SH. 3-Q	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

005117

CONSECUTIVE

NAME STANDARD OIL CO. OF CALIFORNIA

ADDRESS RICHMOND, CALIFORNIA

DWG. NO.  
7071

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
RILEY BLR. & PEABODY BURNERS May, 1936

H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 1990
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 2524
GENERAL ASSEM. SH.	STEEL ASSEM. SH. 7072	BRACKET ASSEM. SH. 7072	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. 7073	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 827

CONSECUTIVE				
NAME STANDARD OIL CO. OF CALIFORNIA				
ADDRESS RICHMOND, CALIFORNIA				DWG. NO. 8752-H
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
CRUDE UNIT FURNACE				DATE 3-28-38
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 827

CONSECUTIVE				
NAME STANDARD OIL CO. OF CALIFORNIA				
ADDRESS RICHMOND, CALIFORNIA				DWG. NO. 5530
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	For re- vamp of units B-1, B-3, & B-4. & 5531 assy for B-3, FORM 227
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		



CONSECUTIVE				
NAME STANDARD OIL CO. OF CALIFORNIA				
ADDRESS RICHMOND, CALIFORNIA				
APPLIED TO BOILER OR FURN.			CLASS	DWG. NO.
(M.W. KELLOGG CO.)				5779
N. P.	OPER. PRESS.	FURN. WIDTH	SETTING	DATE
NO. SETTINGS	HANDING	T. P. NO.	HOW FIRED	CONT. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	AUXIL. FIRING	REQ'N. NO.
				2311 & 16
			CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.		CHKD. BY
			STEEL DETAILS SH.	(over)
INSUL. DETAILS SH.	ANCHOR SOLT PLAN SH.	CASING DETAILS SH.		

VACUUM UNIT & LUBE RE-RUN UNIT 1025 & 1017  
 GENERAL ASSEMBLY 5779  
 STEEL DRILLING & BRKT ASSY. 5782  
 TILE DETAILS 5773 & 74  
 BRACKET & ARCH HANGER DETAILS 5783, 84.  
 5786-Q, 87-Q, 88-H & 89-H.

CONSECUTIVE

NAME STANDARD OIL CO. OF CALIFORNIA

ADDRESS RICHMOND, CALIFORNIA

DWG. NO.  
5542

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.	
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	
				CHKD. BY	
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.		
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227

CONSECUTIVE				
NAME STANDARD OIL CO. OF CALIFORNIA				
ADDRESS RICHMOND, CALIFORNIA				DWG. NO. 7071
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
RILEY "YLO" BLR. & PEABODY BURN.				
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	DATE
				10-29-41
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	CONT. NO.
				3003
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	REQ'N. NO.
7071	7072	7072		3658
				MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL ORILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	5-12-42
	7072		7073	Blr. #5
				Req. 3768
				Cont. 3135
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME STANDARD OIL CO. OF CALIFORNIA				
ADDRESS RICHMOND, CALIFORNIA				DWG. NO. 10874
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	STIRLING BLR.			10-20-41
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 2925
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 3563
GENERAL ASSEM. SH. 1-H	STEEL ASSEM. SH. 2-H	BRACKET ASSEM. SH. 2-H	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH. 2-H	BRACKET STOP-OFFS SH. 4-H	STEEL DETAILS SH. 3-H	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. 5-Q	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME STANDARD OIL CO. OF CALIFORNIA				
ADDRESS RICHMOND, CALIFORNIA				DWG. NO.
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
(M.W. KELLOGG CO.)				DATE
H.P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 2310
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	(over)
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

Atmospheric Topping Unit (1025)  
 Longitudinal Section 5775  
 Transverse Sections 5776 & 78  
 Plan Sections 5777  
 Steel Drilling & Brkt. Assy. 5780 & 81  
 Tile Details 5773 & 74  
 Bracket & Arch Hanger Details 5783, 84, 86-Q, 87-Q, 88-H,  
 & 89-H.

CONSECUTIVE

NAME STANDARD OIL COMPANY OF CALIFORNIA

ADDRESS SAN FRANCISCO, CALIFORNIA

DWG. NO.

5521

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

005126

CONSECUTIVE				
NAME <b>STANFORD UNIVERSITY</b>				
ADDRESS <b>PALO ALTO, CALIFORNIA</b>				DWG. NO. <b>12302</b>
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
<b>520 H.P. Bigelow Boiler</b>				
N. P. <b>520</b>	OPER. PRESS. <b>160#</b>	FURN. WIDTH <b>12'-0"</b>	HOW FIRED <b>CORNERLY.</b>	DATE <b>7-15-49</b>
NO. SETTINGS <b>1</b>	HANDING <b>✓</b>	T.P. NO. <b>—</b>	AUXIL. FIRING <b>—</b>	CONT. NO. <b>5190</b>
GENERAL ASSEM. SH. <b>#1.</b>	STEEL ASSEM. SH. <b>#2.</b>	BRACKET ASSEM. SH. <b>#2.</b>	CASING ASSEM. SH.	REQ'N. NO. <b>5190</b>
				MADE BY <b>ROGERS.</b>
				CHKD. BY <b>KOOS.</b>
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. <b>#3.</b>	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME TIDEWATER ASSOCIATED OIL CO.				
ADDRESS ASSOCIATED, CALIFORNIA				DWG. NO. 13017
APPLIED TO BOILER OR FURN.		CLASS	SETTING	DATE
BORN OIL HEATER				1-12-54
H. P.	OPER. PRESS.	FURN. WIDTH 50'-0"	HOW FIRED	CONT. NO. 6087
NO. SETTINGS ONE	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 6087
GENERAL ASSEM. SH. 2-3-6	STEEL ASSEM. SH. 4-5	BRACKET ASSEM. SH. 4-5	CASING ASSEM. SH.	MADE BY J.C.
				CHKD. BY KOO S
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. 7	
INSUL. DETAILS SH. 1	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227



CONSECUTIVE				
NAME Tidewater Oil Co. (NOW PHILLIPS PETROLEUM)				
ADDRESS Avon, California				DWG. NO.
				13841
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	Selas Steam Methane Reformer			11-10-61
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
				7572
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
				7572
GENERAL ASSEM. SN.	STEEL ASSEM. SN.	BRACKET ASSEM. SN.	CASING ASSEM. SN.	MADE BY
				CHKD. BY
MISCELLANEOUS SN.	BLR. STEEL DRILL. SN.	BRACKET STOP-OFFS SN.	STEEL DETAILS SN.	
INSUL. DETAILS SN.	ANCHOR BOLT PLAN SN.	CASING DETAILS SN.		

FORM 227

CONSECUTIVE		(NOW PHILLIPS PETROLEUM)		
NAME TIDEWATER OIL COMPANY				
ADDRESS AVON, CALIFORNIA				DWG. NO. 13902
APPLIED TO ONE B-L 160,000,000 BTU/HR CIRCULAR HOT AIR FURN		CLASS	SETTING	DATE 10-22-62
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
HAUCK D. B. G.	- 1120A GAS BURNER			8022
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 8022
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE (NOW PHILLIPS PETROLEUM)

NAME **TIDEWATER ASSOCIATED OIL COMPANY**

ADDRESS **AVON, CALIFORNIA** DWG. NO. 11405

APPLIED TO **U.O.P. REGENERATOR & FLUE GAS PIPE** DATE 7-3-44

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL FIRING	REQ'N. NO.
GENERAL ASSEM. SH. 2,3,4,5,6,7,8	STEEL ASSEM. SH. 9,10,11,12,14,13,15,16.	BRACKET ASSEM. SH. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH. 17 thru 29 incl.	CHKD. BY
INSUL. DETAILS SH. 11201, sh. 3	ANCHOR BDET PLAN SH.	CASING DETAILS SH.		(OVER)

ORIENTATION DIAGRAM, sh. 1  
 TILE DETAILS DRWG 11412, shts 2,3.  
 CASTING DETAILS DRWG. 11412, sht. 1.  
 PIPE DETAIL TP-3644, sht. 11

All sets of dwgs. to have regenerator & pipe lining specs. included, also TD-15, tile & casting details (see req.) & all reqs.

Revised restriction grid detail, sht. 30-H

CONSECUTIVE

NAME TIDE WATER ASSOCIATED OIL CO.

ADDRESS COALINGA, CALIFORNIA (KETTLEMAN PUMP STA) <sup>(CALIF. REG. NO. 512430-772)</sup> DWS. NO. 12902

APPLIED TO		BOILER OR FURN.	CLASS	SETTING	DATE
ONE (1)		250 H.P.	Heine	Boiler Revamp	10-6-53
N.P.	OPER. PRESS.	FURN. WIDTH	NOV-FIRE	CONT. NO.	
		7'-0"	6293-5992	6037-6151	
NO. SETTINGS	HANDING	T.P. NO.	REWORKING	REQ'N. NO.	
1			6293-5992	6037-6151	
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING SH.	DATE BY	CHKD. BY
1 & 2	3	3	✓	9-5-54	
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.		
✓	✓		9-5-6		
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			
✓	7				

FORM 887

CONSECUTIVE				
NAME TIDEWATER ASSOCIATED OIL CO.				
ADDRESS CAOLINGA, CALIFORNIA				DWG. NO. 12902 DUE
APPLIED TO (3) HEINE 250 HP STRT. TUBE BLRS. OIL & GAS FIRED		CLASS	SETTING	DATE 6/11/56
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 6503
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REG'N. NO. 6503
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME TIDEWATER OIL CO.				
ADDRESS VANORMER PUMP STN. PATTERSON, CALIF.				DWG. NO. 12902
APPLIED TO HEINE BOILER (RESETTING)		BOILER OR FURN.	CLASS	SETTING DATE 8-24-59
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CDNT. NO. 7061
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO. 7061
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME Union Oil Company

ADDRESS Rodeo, California

DWG. NO.  
14714

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
Refractory Lined Transfer Line 10-24-69

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 709-200-8
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'D. NO. 709-200-8
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
MISCELLANEOUS SH.	SLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE

NAME Union Oil Co.

ADDRESS Rodeo, California

DWS. NO.  
14698

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	(1)	Selas Heater		8-14-69
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
				709-162-7
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REG'N. NO.
				709-162-7
GENERAL ASSEM. SN.	STEEL ASSEM. SN.	BRACKET ASSEM. SN.	CASING ASSEM. SN.	MADE BY
				CHKD. BY
MISCELLANEOUS SN.	SLR. STEEL DRILL SN.	BRACKET STOP-OFFS SN.	STEEL DETAILS SN.	
INSUL. DETAILS SN.	ANCHOR BOLT PLAN SN.	CASING DETAILS SN.		

FORM 227



CONSECUTIVE				
NAME UNIVERSITY OF CALIFORNIA				4182
ADDRESS BERKELEY, CAL.				DWG. NO. 4183-Q
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
INCINERATOR				DATE 7-13-31
M. P.	OPER. PRESS.	FURN. WIDTH	NOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	Bigelow Arches & Walls
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

CONSECUTIVE			
NAME <i>UNKNOWN</i>			
ADDRESS <i>BAKERSFIELD, CA.</i>		DWG. NO. <i>11500 SH. 88</i>	
APPLIED TO	BOILER OR FURN.	CLASS	SETTING
<i>AIR HEATING FURN.</i>			DATE <i>2-1-88</i>
			CONT. NO.
			MADE BY
			CHKD. BY
FORM 227Y			

CONSECUTIVE				
NAME U.S. NAVAL AIR STATION				
ADDRESS ALAMEDA, CALIF.				DWG. NO.
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE 11-10-40
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO. 32760	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME UNITED STATES MARE ISLAND NAVY YARDS				
ADDRESS NATURAL GAS EQUIPMENT			CA	DWG. NO. 10977
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
STATIONARY HEARTH		HEAT TREATING	ROLLING	DATE 1-8-42
M.P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	FURN. CONT. NO. 3033
NO. SETTINGS	HANDING	TP 3572H	AUXIL. FIRING	REQ. NO. 3680
GENERAL ASSEM. SH. 1 10977	STEEL ASSEM. SH. ✓	BRACKET ASSEM. SH. 1	CASING ASSEM. SH. ✓	MADE BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH. ✓	BRACKET STOP-OFFS SH. ✓	STEEL DETAILS SH. ✓	CHKD. BY
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH. ✓	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME MARE ISLAND NAVY YDS.				
ADDRESS MARE ISLAND, CALIF.				DWG. NO. 10977
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
STATIONARY HEARTH		ROLLING	HEAT TREATING	DATE 1-8-42
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	FURN. CONT. NO. 3033
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 3680
GENERAL ASSEM. SN.	STEEL ASSEM. SN.	BRACKET ASSEM. SN.	CASING ASSEM. SN.	MADE BY
1		1		CHKD. BY
MISCELLANEOUS SN.	BLR. STEEL DRILL SN.	BRACKET STOP-OFFS SN.	STEEL DETAILS SN.	
INSUL. DETAILS SN.	ANCHOR BOLT PLAN SN.	CASING DETAILS SN.		

FORM 227

CONSECUTIVE

NAME UNITED STATES NAVY YARD

ADDRESS MARE ISLAND, CALIFORNIA

DWG. NO.  
5010-H

APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	Prop. Wall 5556
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME UNITED STATES NAVAL OPERATING BASE				5029-H
ADDRESS SAN DIEGO, CAL.				DWG. NO. 5027
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
	BENT TUBE BOILER			2-27-33
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR SOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME U. S. NAVAL SHIPYARD				
ADDRESS SAN FRANCISCO, CALIFORNIA				DWG. NO. 13417
APPLIED TO HEAT & CONTROL STRESS RELIEVING FURNACE		SOILER OR FURN.	CLASS	SETTING DATE 3-21-57
H.P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 6647
NO. SETTINGS 1	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. 6647
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227



CONSECUTIVE

NAME <b>U. S. PLYWOOD</b>				
ADDRESS <b>ANDERSON CAL.</b>				DWG. NO. <b>14989</b>
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
<b>(1) 30 MIL BTU/HR BL CIRC H.A.F.</b>				CONT. NO. <b>703-201-3</b>
				MADE BY
				CHKD. BY
FORM 227				

CONSECUTIVE

NAME <b>U.S. PLYWOOD (New CHAMPION BUILDING PRODUCTS)</b>			
ADDRESS <b>ANDERSON, CALIFORNIA</b>			DWG. NO. <b>14387</b>
APPLIED TO	BOILER OR FURN.	CLASS	SETTING
	<b>WOODCHIP OILYER</b>	<b>/</b>	<b>COGN BURNER</b>
			DATE <b>2-5-66</b>
			CONT. NO. <b>66-8103</b>
			MADE BY
			CHKD. BY

FORM 227

CONSECUTIVE

NAME U.S. STEEL CORP. CONSOLIDATED WESTERN DIV.

DWG. NO.

ADDRESS SOUTH SAN FRANCISCO, CALIF.

None

APPLIED TO HEAT & CONTROL INC. STRESS RELIEV. FURNACE		BOILER OR FURN. CLASS	SETTING DATE	
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	3/21/56
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	CONT. NO. 6456
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	REQ'N. NO. 6456
				MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 217

CONSECUTIVE

NAME U.S. VETERANS HOSPITAL

ADDRESS SAN FRANCISCO, CALIFORNIA

DWG. NO.

TP-1195

APPLIED TO BOILER OR FURN. CLASS SETTING DATE

250 HP BENT TUBE BOILER

12-5-32

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED OIL & GAS	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	(over)
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

Bigelow 9 $\frac{1}{2}$ " Std. Suspended Walls  
 Hunters Drawings 5004, 05, 06, 07.

<b>CONSECUTIVE</b>				
<b>NAME VALLEY NITROGEN COMPANY</b>				
<b>ADDRESS HELM, CALIFORNIA</b>				<b>DWG. NO.</b> 13593
<b>APPLIED TO ONE 32 TUBE PRIMARY GAS REFORMER HEATER</b>				<b>DATE</b> 10-22-62
<b>N.P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b> 7815
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T.P. NO.</b>	<b>AUXIL. FIRING</b>	<b>REQ'N. NO.</b> 7815
<b>GENERAL ASSEM.</b> SN.	<b>STEEL ASSEM.</b> SN.	<b>BRACKET ASSEM.</b> SN.	<b>CASING ASSEM.</b> SN.	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS</b> SN.	<b>BLR. STEEL DRILL</b> SN.	<b>BRACKET STOP-OFFS</b> SN.	<b>STEEL DETAILS</b> SN.	
<b>INSUL. DETAILS</b> SN.	<b>ANCHOR BOLT PLAN</b> SN.	<b>CASING DETAILS</b> SN.		

FORM 217

CONSECUTIVE

NAME VALLEY NITROGEN PRODUCERS, INC.

ADDRESS Helm, California

DWG. NO.

14159

APPLIED TO BOILER OR FURN. CLASS SETTING DATE  
(1) Chemical Construction Corp. Primary Reformer 10-6-64

N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. 64-7209
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME <i>VALLEY NITROGEN PRODUCERS</i>			14899	
ADDRESS <i>HELM, CALIFORNIA</i>			DWG. NO.	
APPLIED TO	BOILER OR FURN.	CLASS	SETTING	DATE
<i>TRANSFER LINE</i>				CONT. NO.
				<i>702-152-9</i>
				MADE BY
				<i>LOS ANGELES</i>
				CHKD. BY
FORM 227				

CONSECUTIVE				
NAME <i>VALLEY NITROGEN</i>				
ADDRESS <i>HELM, CALIFORNIA</i>				
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
<i>SECONDARY REFORMER</i> <i>DOME CATALYST SUPPORT</i>		DWG. NO. <i>15140</i>		
		DATE <i>9-21-26</i>		
		CONT. NO. <i>776-062-8</i>		
		MADE BY		
		CHKD. BY		
FORM 227				



<b>CONSECUTIVE</b>				
<b>NAME</b> VALLEY NITROGEN PRODUCERS INC.				<b>QWS. NO.</b>
<b>ADDRESS</b> HELM, CALIFORNIA				
<b>APPLIED TO</b>	<b>BOILER OR FURN.</b>	<b>CLASS</b>	<b>SETTINGS</b>	<b>DATE</b>
	(1) SECONDARY REFORMER			4-25-60
<b>N. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b>
				6961
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T. P. NO.</b>	<b>ADJCL. PARTS</b>	<b>RECT. NO.</b>
				6961
<b>GENERAL ASSEM.</b>	<b>STEEL ASSEM.</b>	<b>BRACKET ASSEM.</b>	<b>CASING ASSEM.</b>	<b>MADE BY</b>
<b>SN.</b>	<b>SN.</b>	<b>SN.</b>	<b>SN.</b>	
				<b>CHKD. BY</b>
<b>MISCELLANEOUS</b>	<b>S.L.R. STEEL DRILL.</b>	<b>BRACKET STOP-OFFS</b>	<b>STEEL DETAILS</b>	
<b>SN.</b>	<b>SN.</b>	<b>SN.</b>	<b>SN.</b>	
<b>INSTR. DETAILS</b>	<b>ANCHOR BOLT PLAN</b>	<b>CASING DETAILS</b>		
<b>SN.</b>	<b>SN.</b>	<b>SN.</b>		

FORM 227

CONSECUTIVE

NAME VALLEY NITROGEN COMPANY

ADDRESS HELM, CALIFORNIA

DWG. NO. 13593

APPLIED TO CHEMICAL		BOILER OR FURN.	CLASS	SETTING	DATE
		CONSTRUCTION GAS REFORMER HEATER			2-3-59
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.	
				6938	
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.	
2				6938	
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY	
				CHKD. BY	
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.		
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.			

FORM 227

CONSECUTIVE				
NAME WATER WORKS SUPPLY COMPANY				
ADDRESS SAN FRANCISCO, CALIFORNIA				
APPLIED TO BOILER OR FURN. CLASS SETTING DATE				
BALMER INCINERATOR				
N. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH. 4501-H 4556-H 4504-H	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

CONSECUTIVE				
NAME <b>WESTERN GULF OIL COMPANY</b>				
ADDRESS <b>PALOMA, CALIFORNIA</b>				DWG. NO. <b>12316</b>
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
		<b>C.F. Braun Upshot End Fired Heater</b>		
DATE		<b>9-8-49</b>		
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO. <b>5231</b>
NO. SETTINGS <b>One</b>	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO. <b>5231</b>
GENERAL ASSEM. SH.	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

<b>CONSECUTIVE</b>				
<b>NAME</b> WESTERN ROLLING MILLS				
<b>ADDRESS</b> SAN JOSE, CALIFORNIA				<b>DWG. NO.</b> TP-4812
<b>APPLIED TO</b>	<b>BOILER OR FURN.</b>	<b>CLASS</b>	<b>SETTING</b>	<b>DATE</b> 6/25/56
<b>H. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b>
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T.P. NO.</b>	<b>AUXIL. FIRING</b>	<b>REQ'N. NO.</b>
<b>GENERAL ASSEM.</b> SH.	<b>STEEL ASSEM.</b> SH.	<b>BRACKET ASSEM.</b> SH.	<b>CASING ASSEM.</b> SH.	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS</b> SH.	<b>BLR. STEEL DRILL.</b> SH.	<b>BRACKET STOP-OFFS</b> SH.	<b>STEEL DETAILS</b> SH.	
<b>INSUL. DETAILS</b> SH.	<b>ANCHOR BOLT PLAN</b> SH.	<b>CASING DETAILS</b> SH.		

FORM 227

<b>CONSECUTIVE</b>				
<b>NAME</b> WESTERN STATES GASOLINE COMPANY				
<b>ADDRESS</b> KETTLEMAN HILLS, CALIFORNIA				<b>DWG. NO.</b> 12-17-43
<b>APPLIED TO</b>		<b>BOILER OR FURN.</b>	<b>CLASS</b>	<b>SETTING</b>
CLASS H-3 NO. 18		SINGLE FURNACE		GAS
<b>H. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO.</b>
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T.P. NO.</b> 3724	<b>AUXIL. FIRING</b>	<b>REQ'N. NO.</b>
<b>GENERAL ASSEM. SH.</b>	<b>STEEL ASSEM. SH.</b>	<b>BRACKET ASSEM. SH.</b>	<b>CASING ASSEM. SH.</b>	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS SH.</b>	<b>BLR. STEEL DRILL. SH.</b>	<b>BRACKET STOP-OFFS SH.</b>	<b>STEEL DETAILS SH.</b>	
<b>INSUL. DETAILS SH.</b>	<b>ANCHOR BOLT PLAN SH.</b>	<b>CASING DETAILS SH.</b>		

FORM 227

CONSECUTIVE		(FORMERLY CRANE CREEK LUMBER CO.)		
NAME		WILLOW RANCH LUMBER CO.		
ADDRESS		WILLOW RANCH, CALIFORNIA		
APPLIED TO		BOILER OR	CLASS	SETTING
STIRLING				
DATE		12-27-98		
H. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
475		14' 8"	HOGGED	
NO. SETTINGS	HANDING	T. P. NO.	AUXIL. FIRING	REQ'N. NO.
ONE				2766
GENERAL ASSEM.	STEEL ASSEM.	BRACKET ASSEM.	CASING ASSEM.	MADE BY
DR. #	DR. #	SH.	SH.	TODOR
8712	8714			CHKD. BY
MISCELLANEOUS	BLR. STEEL DRILL.	BRACKET STOP-OFFS	STEEL DETAILS	
DR. DETAILS OF CASTINGS	SH.	SH.	DR. #	
8715-Q			8723	
INSUL. DETAILS	ANCHOR BOLT PLAN	CASING DETAILS	8725	
SH.	SH.	SH.	8715-Q	

FORM 227

<b>CONSECUTIVE</b>				
<b>NAME WINTON LUMBER COMPANY</b>				
<b>ADDRESS MARTELL, AMADOR COUNTY, CALIFORNIA</b>				<b>DWG. NO. 12625</b>
<b>APPLIED TO</b>		<b>SOILER OR FURN.</b>	<b>CLASS</b>	<b>SETTING</b>
<b>TWO HRT. HLR. REVAMPS SET IN BATTERY</b>				<b>DATE 9-19-51</b>
<b>H. P.</b>	<b>OPER. PRESS.</b>	<b>FURN. WIDTH</b>	<b>HOW FIRED</b>	<b>CONT. NO. 5637</b>
<b>NO. SETTINGS</b>	<b>HANDING</b>	<b>T. P. NO.</b>	<b>AUXIL FIRING</b>	<b>REQ'N. NO. 5637</b>
<b>GENERAL ASSEM. SH.</b>	<b>STEEL ASSEM. SH.</b>	<b>BRACKET ASSEM. SH.</b>	<b>CASING ASSEM. SH.</b>	<b>MADE BY</b>
				<b>CHKD. BY</b>
<b>MISCELLANEOUS SH.</b>	<b>BLR. STEEL DRILL. SH.</b>	<b>BRACKET STOP-OFFS SH.</b>	<b>STEEL DETAILS SH.</b>	
<b>INSUL. DETAILS SH.</b>	<b>ANCHOR BOLT PLAN SH.</b>	<b>CASING DETAILS SH.</b>		

FORM 227



CONSECUTIVE				
NAME YORKVILLE LBR. COMPANY				
ADDRESS YORKVILLE, CALIFORNIA				DWG. NO. 5069-H
APPLIED TO		BOILER OR FURN.	CLASS	SETTING
H.R.T. BLRS. -REF. FURNACES				DATE 8-24-33
M. P.	OPER. PRESS.	FURN. WIDTH	HOW FIRED	CONT. NO.
NO. SETTINGS	HANDING	T.P. NO.	AUXIL. FIRING	REQ'N. NO.
GENERAL ASSEM. SH. 5069-H	STEEL ASSEM. SH.	BRACKET ASSEM. SH.	CASING ASSEM. SH.	MADE BY
				CHKD. BY
MISCELLANEOUS SH.	BLR. STEEL DRILL. SH.	BRACKET STOP-OFFS SH.	STEEL DETAILS SH.	
INSUL. DETAILS SH.	ANCHOR BOLT PLAN SH.	CASING DETAILS SH.		

FORM 227

