The purpose of this advisory is to inform local air pollution control districts and other interested persons of Executive Order G-669 which lists abrasives currently certified by Air Resources Board (ARB) Compliance Division staff in accordance with Section 92530 of Subchapter 6, Title 17, California Code of Regulations. Executive Order G-669 will expire on August 31, 1992, after which a new list of abrasives will be issued.

Legal Requirements

The Health and Safety Code authorizes the ARB to adopt air pollution standards for sandblasting operations. Under Title 17 of the California Code of Regulations, the ARB is required to certify abrasives used for permissible dry outdoor blasting as complying with specific performance standards. The performance standards require that the abrasives, before blasting, shall not contain more than 1% by weight material passing a #70 U. S. standard sieve or, as an alternative, not produce visible emissions more than 20% opacity when blasted in accordance with a specified test method; after blasting the abrasives shall not contain more than 1.8% by weight material 5 microns or smaller.

Compliance with these certification requirements helps to reduce fine particulate matter emitted to the atmosphere during permissible dry outdoor blasting.

The current regulations require all abrasive blasting to be conducted within a permanent building with specified exceptions, require the use of ARB certified abrasives, wet, hydroblasting or vacuum blasting techniques, or steel or iron shot/ grit for all permissible blasting not conducted within a permanent building, apply a 40 percent opacity visible emission standard to all permissible outdoor blasting, and apply a 20 percent opacity standard to abrasive blasting conducted within a permanent building regardless of the abrasive or abrasive blasting method used.

If you have any questions regarding Executive Order G-669 or the certification process, please contact Gary Zimmerman, Manager of the Source Test Section at (916) 322-2886.

James J. Morgester, Chief
Compliance Division
Air Resources Board
P. O. Box 2815
Sacramento, CA 95812
WHEREAS, Article 4 (commencing with Section 41900), Chapter 3, Part 4, Division 26 of the Health and Safety Code authorizes the Air Resources Board (the ARB) to adopt abrasive blasting standards;

WHEREAS, in Subchapter 6 (commencing with Section 92000), Chapter 1, Part III, Title 17, California Code of Regulations, the ARB has established abrasive blasting standards;

WHEREAS, Section 92500(c), Title 17, California Code of Regulations, provides in part that any permissible abrasive blasting operation conducted outside a permanent building must use exclusively wet abrasive blasting, hydroblasting, vacuum blasting or abrasives certified by the ARB for permissible dry outdoor blasting;

WHEREAS, Health and Safety Code Sections 39515 and 39516 delegate to the Executive Officer any power which the ARB may lawfully delegate;

WHEREAS, the abrasives listed in Exhibit A (attached) have been tested in accordance with "Method of Test for Abrasive Media Evaluation," Test Method No. California 371-A and for some selected abrasive(s) the "Visible Emission Evaluation Test Method for Selected Abrasives Used in Permissible Dry Outdoor Blasting," and all have been found to comply with the abrasive certification performance standards set forth in Section 92530(b), Title 17, California Code of Regulations;

NOW, THEREFORE, IT IS ORDERED that the abrasives listed in Exhibit A are certified pursuant to Section 92530, Title 17, California Code of Regulations, and may be used accordingly for permissible dry outdoor blasting until August 31, 1992.

IT IS FURTHER ORDERED that this Executive Order shall expire on August 31, 1992, and the above-listed abrasives shall not be certified after that date for permissible dry outdoor blasting unless they are recertified in accordance with the provisions of Section 92530(b), Title 17, California Code of Regulations.

Executed this 29th day of August, 1991 at Sacramento, California.

James D. Boyd
Executive Officer
EXHIBIT A

State of California
AIR RESOURCES BOARD

Executive Order G-669

ABRASIVES CERTIFIED FOR PERMISSIBLE DRY OUTDOOR BLASTING pursuant to Section 92530 of Subchapter 6, Title 17, California Code of Regulations:

<table>
<thead>
<tr>
<th>Company</th>
<th>Brand Name or Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpheus Cleaning Technologies Corp.</td>
<td>CO₂ Cleanblast</td>
</tr>
<tr>
<td>Thomas Fahey</td>
<td></td>
</tr>
<tr>
<td>9105 Milliken Ave.</td>
<td></td>
</tr>
<tr>
<td>Rancho Cucamonga, CA 91730</td>
<td></td>
</tr>
<tr>
<td>(714) 944-0055</td>
<td></td>
</tr>
</tbody>
</table>

2. Apache Abrasive Inc.  
   H. M. Hedrick II    
   P.O. Box 19279     
   Houston, TX 77224  
   (713) 468-5647     

2. Apache Abrasive Inc.  
   Apache-Blast 12-50  
   Apache-Blast Utility

3. Applied Industrial Materials Corporation (AIMCOR)  
   Robert Henning  
   One Parkway North, Suite 400  
   Deerfield, IL 60015  
   (708) 940-8700     

4. Barton Mines Corporation  
   J. L. Nash  
   P.O. Box 400  
   North Creek, N.Y. 12853  
   (518) 251-2532  

5. Blackhawk Slag Products  
   Robert L. Soehnlen  
   P.O. Box 213  
   Midvale, Ut 84047  
   (801) 561-2408     

6. California Silica Products Company  
   D. G. Hendrickson  
   P.O. Box 249  
   San Juan Capistrano, CA 92693  
   (714) 728-0171     

   #12     
   #16     
   #20     
   #30     

   Barton 1640  
   Blackhawk Fine  
   Blackhawk Medium  
   Blackhawk Utility  
   Green Lightning 20 x 46
7. Corona Industrial Sand Company
   Stan D. Hendrickson
   20125 Temescal Cyn. Rd.
   Corona, CA 91719
   (714) 735-4660
   Cisco #12
   Cisco #16
   Cisco #20
   Cisco #30

8. Cominco American Resources
   Mark Gadsby
   Glenbrook Nickel Company, P.O. Box 85
   Riddle, OR 97469
   (503) 874-3111
   Ruby Garnet 16
   Ruby Garnet 36

9. Crystal Peak Garnet Corp.
   Robert Wolfe
   701 675 West Hastings Street
   Vancouver, BC V6B 1N2 Canada
   (604) 684-6287
   16-40

10. Desert Garnet
    Michael Millar
    P.O. Box 578
    Cadiz, CA 92319
    (619) 254-3410
    Gemshot #36
    Gemshot 30-60
    Geronimo #36
    Geronimo 30-60

11. Don Kelland Materials, Inc.
    Don Kelland
    2217 E. 13th Street
    Yuma, AZ 85366-4909
    (602) 782-4525
    Arizona Utility

    Stephen Dwyer
    31360 Las Flores Way
    Thousand Palms, CA 92276
    (619) 343-0344
    Garnex Storm #16
    Garnex Storm #20
    Garnex Storm #40
    Garnex Storm #60

    Robert A. Frank
    Chestnut Run Plaza Bldg. 709
    Wilmington, DE 19880-0709
    (302) 999-02124
    Biasill *(cpff = #200 sieve)
    Starblast *(cpff = #200 sieve)
    Starblast XL *(cpff = #200 sieve)
    Zirclean *(cpff = #270 sieve)

*cpff = Cut-point for fineness
14 Foster-Dixiana Corporation
Carl L. Foster
P.O. Box 2006
Columbia, SC 29202
(803) 791-3129

Norfolk Plant
5360 Bainbridge Blvd.
Chesapeake, VA 23320

Columbia Plant
3308 Charleston Highway
West Columbia, SC 29169

Savannah Plant
Hardeeville Industrial Park
Highway 321
Hardeeville, SC 29927

Fusco Abrasive Systems, Inc.
Steve Rosin
17899 South Susana Road
Compton, CA 90221
(231) 637-3427

P. W. Gillibrand Company
John C. Heter
P.O. Box 3476
Simi Valley, CA 93063
(805) 526-2195

17. Gemstar Stone Products Company
Heinz E. Oest
Executive Plaza IV
Hunt Valley, MD 21031-1091
(301) 877-3440

Glenbrook Nickel Company
Mark Gadsby
P.O. Box 85
Riddle, OR 97469
(503) 874-3171

Black Diamond-CX8
Black Diamond-CX12

Gillibrand #12 Silver
Gillibrand #16 Silver
Gillibrand #20 Silver
Gillibrand #30 Silver
Gillibrand M-16
Gillibrand M-20
Gillibrand M-30

Green Diamond 10-40
Green Diamond 16-36
Green Diamond 16-50
Green Diamond 20-50

Camel Black, Utility Grade
19. Gordon Sand Company
   Jim Whitney
   P.O. Box 5549
   Compton, CA 90224
   (213) 774-7930
   Golden Flint G-16
   Golden Flint G-20
   Golden Flint G-30
   Lapis Luster G-12
   Silver Flint S-12
   Silver Flint S-16
   Silver Flint S-20
   Silver Flint S-30

20. Manufacturer:
   Emerald Creek Garnet Milling Co.
   Norman (Bud) L. McCall, President
   Box 190
   (208) 245-2797
   Fernwood, ID 83830
   #36
   #30/40
   #50X

Distributor:
   Gordon Sand Company
   Jim Whitney
   P.O. Box 5549
   Compton, CA 90224
   (213) 774-7930

21. Manufacturer:
   Garnet Millers Australia Pty. Ltd.
   Robert J. Wicks, Executive Director
   P.O. Box 188
   Geraldton
   W.A. 6530 Australia
   ROM 30 X 60

Distributor:
   Barton Mines Corporation
   James L. Nash
   Blastmedia Division
   1658 Cole Blvd. #190
   Golden, CO 80401

Distributor:
   Gordon Sand Company
   Jim Whitney
   P. O. Box 5549
   Compton, CA 90224
   (213) 774-7930

22. Grangrit, Inc.
   Allen K. Evans
   3300 River Road
   Harvey, LA 70059
   (504) 341-0451
   Grangrit-Medium
<table>
<thead>
<tr>
<th>No.</th>
<th>Company Details</th>
</tr>
</thead>
</table>
| 23. | Harsco Corporation  
Reed Mineral Division  
Ryan R. Preble  
8149 C Kennedy Avenue  
Highland, IN 46322  
(219) 923-4200  
Reed Minerals/Harsco  
2170 Plant Road  
P.O. Box 9454  
Memphis, TN 38109  
Reed Minerals/Harsco  
River Road at Merrimack Power Station  
Concord (Bow), NH 0302  
Reed Minerals/Harsco  
7100 W. 9th Avenue  
Gary, IN 46406  
Reed Minerals/Harsco  
State Road 176  
Drakesboro, KY 42337  
Black Beauty  
Black Beauty - 1243  
Black Beauty - 2043  
Black Beauty - 1040  
Black Beauty - 1240  |
| 24. | Hydro-Air Products, Inc.  
Paula Hinkley  
4720 East District Blvd.  
Vernon, CA 90058  
(213) 589-7999  
E.I. DuPont de Nemors & Co.  
Utility  
Coarse staurolite  |
| 25. | Industrial Mineral Products (Phil) Inc  
C.S. (Nick) Ferris  
(303) 424-3007  
I.M.P. (Phil) Inc.P.O. Box 1008  
Cebu City, Philippines 6000  
Philippines-0011 63 32 78083  
Reserve Abrasives  |
Tom Jensen  
2100 McGillivray Blvd.  
Winnipeg, Manitoba R3T 3N5 Canada  
(204) 453-4120  
Kayway Grit 16-30  
Kayway Grit 20-40 |
27. Minerals Research and Recovery of Arizona, Inc.
   Don E. Byron
   4565 South Palo Verde #203
   Tucson, AZ 85714
   (602) 748-9362
   Sharpshot F-80(25)
   Sharpshot F-80(36)
   Sharpshot M-60

28. Pacific Abrasives & Supply & Inc.
   Wayne Chard
   West Carson Road
   Grand Forks, British Columbia V0H 1H0
   (604) 442-3626
   Kleen Blast 16-30
   Kleen Blast 35
   Kleen Blast 16
   Kleen Blast 8-12
   Kleen Blast 30-60

29. Parker Brothers & Company, Inc.
   George L. Parker
   12-60
   P.O. Box 107
   Houston, TX 77001
   (713) 928-8400
   8-20

30. Parker Mining Corporation
   John A. Riddle
   P.O. Box 470817
   San Francisco, CA 94147-0817
   (415) 537-6438
   Little Sister Garnet Grade 28
   Little Sister Garnet Grade 40

31. R.A. Barnes, Inc.
   Tony Stewart
   1617 N. Columbia Blvd.
   Portland, OR 97217
   (503) 283-4191
   Safe-T-Blast Type I
   Safe-T-Blast Type II

32. RDM Multi-Enterprises, Inc.
   Dominic DiFrancesco
   P. O. Box 179
   Anaconda, MT 59711
   (406) 563-3433
   Ferro Blast 8-20
   Ferro Blast 16-30
   Ferro Blast 36 fine
   Ferro Blast 30-60 X-fine
   Best Grit 8-20
   Best Grit 16-30
   Best Grit 36 fine
   Best Grit 30-60 X-fine
   Ferro Blast-73 #8/20
   Ferro Blast-73 #16/30
   Ferro Blast-73 #36
33. RMC Lonestar
   Jay Simons
   P. O. Box 5252
   Pleasanton, CA 94566
   (415) 866-2780
   Lapis Lustre No. 3
   Lapis Luster No. 1/20
   Lapis Luster No. 1C
   Lapis Luster No. 2/12
   Lapis Luster No. 2-1/16
   Lapis Luster No. 0/30
   Clementina No. 3
   Clementina No. 1/20
   Clementina No. 1C
   Clementina No. 2/12
   Clementina No. 2-1/16
   Clementina No. 0/30

   Ron Hanna Mining Company
   Ronald G. Hanna
   1410 W. Gurley
   Prescott, AZ 86301
   (602) 778-3575
   Superior Coarse
   Superior Medium

35. Spreckles Limestone
    and Aggregates Products
    Leonard Bartley
    2601 Hwy 49
    Cool, CA 95614
    (916) 885-4244
    Calcarb Medium
    Calcarb Coarse

36. Silica Resources, Inc.
    Jack Greenhalgh, Ed Mallory
    and Tom Hale
    7516 A. Hammonton Rd.
    Marysville, CA 95901
    (916) 741-0290
    SRI Premium No. 8
    SRI Premium No. 12
    SRI Premium No. 16
    SRI Premium No. 20
    SRI Premium No. 30

Stan-Blast Abrasive Company, Inc.
Michael D. Vick
P.O. Box 968
Harvey, LA 70069
(504) 341-0451
Stan-Blast-Galveston, Tx
Stan-Blast-Harvey, La

38. 3M Company
    John Pauly or R.J. Sloan
    P.O. Box 1328
    Corona, CA 91718
    (714) 737-3441
    3M C-110
    3M C-111
Iidewater Materials of Virginia, Inc.
H. M. Hedrick II
P.O. Box 79747
Houston, TX 77224
(713) 468-1402

Union Pacific Resources
Brent Young
1380 South 12100 West
Magna, UT 84044
(801) 250-9474

Unimin Corporation
Charles Collins
4601 Cascade Road
Emmett, ID 83617
(208) 366-7153

42. Valley Sand and Gravel
Tom Hale
84749 Searles Street
Trona, CA 93562
(619) 372-4944

43. Virginia Materials Corporation
Leonard Swann
5660 East Virginia Beach Boulevard
Suite 103
Norfolk, VA 23502
(804) 461-0061

44. Waupaca Materials,
A Division of Falks Bros. Construction Company, Inc.
Sydney Falks, Robert Falks, and Randall Falks
E3481 Hwys. 22 & 54
Waupaca, WI 54981
(414) 634-1343

Sure-Shot Utility (New Orleans Plant)
Sure-Shot Utility (Portsmouth Plant)
Copper Blast medium
Dynacut 100
Dynacut coarse
Dynacut medium
Dynacut MSR (fine)

Granusil #16
Granusil #20
Granusil #30

Desert Diamond Coarse
Desert Diamond Medium

WMC Black Blast
Norfolk, VA Plant
Blackjack MSM