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 29 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>CO\textsubscript{2} 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. | Apache-Blast 12-60
| H. M. Hedrick II | Apache-Blast Utility
| P.O. Box 19279 | |
| Houston, TX 77224 | |
| (713) 468-5647 | |

3. Applied Industrial Materials Corporation (AIMCOR) | Green Lightning 20 x 46
| Robert Henning | |
| One Parkway North, Suite 400 | |
| Deerfield, IL 60015 | |
| (708) 940-8700 | |

4. Barton Mines Corporation | Barton 1640
| J. L. Nash | |
| P.O. Box 400 | |
| North Creek, NY 12853 | |
| (618) 251-2532 | |

5. Blackhawk Slag Products | Blackhawk Fine
| Robert L. Soehnlen | Blackhawk Medium
| P.O. Box 213 | Blackhawk Utility
| Midvale, UT 84047 | |
| (801) 561-2408 | |

6. California Silica Products Company | #12
| D. G. Hendrickson | #16
| P.O. Box 249 | #20
| San Juan Capistrano, CA 92693 | #30
| (714) 728-0171 | |
7. Corona Industrial Sand Company  
   Cisco #12  
   Cisco #16  
   Cisco #20  
   Cisco #30  
   Corona Industrial Sand Company  
   20125 Temescal Cyn. Rd.  
   91719  
   (714) 735-4660  

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

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

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

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

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

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

*cpff = Cut-point for fineness
14 Foster-Dixiana Corporation
Carl L. Foster
P.O. Box 2005
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

Black Diamond-CX8
Black Diamond-CX12

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

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

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

    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

    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 Name</th>
<th>Address</th>
<th>Contact Person</th>
<th>Phone</th>
<th>Product/Description</th>
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</thead>
<tbody>
<tr>
<td>23.</td>
<td>Harsco Corporation</td>
<td>Reed Mineral Division</td>
<td>Ryan R. Preble</td>
<td>(219) 923-4200</td>
<td>Black Beauty</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2170 Plant Road P.O. Box 9454 Memphis, TN 38109</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>River Road at Merrimack Power Station Concord (Bow), NH 0302</td>
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<td></td>
<td></td>
<td>7100 W. 9th Avenue Gary, IN 46406</td>
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<td></td>
<td>State Road 176 Drakesboro, KY 42337</td>
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<td>Utility</td>
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<td>24.</td>
<td>Hydro-Air Products, Inc.</td>
<td></td>
<td>Paula Hinkley</td>
<td>(213) 589-7999</td>
<td>Coarse staurolite</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>4720 East District Blvd. Vernon, CA 90058</td>
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<td></td>
<td></td>
<td></td>
<td>I.M.P. (Phil) Inc. P.O. Box 1008 Cebu City, Philippines 6000 Philippines-0011 63 32 78083</td>
</tr>
</tbody>
</table>
Executive Order G-669  
Expires 8/31/92

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 1G0
   (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 12-50
    P.O. Box 107
    Houston, TX 77001
    (713) 928-8400

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. 7/20  
- Lapis Luster No. 1C  
- Lapis Luster No. 2/12  
- Lapis Luster No. 2-16  
- Lapis Luster No. 0/30  

- Clementina No. 3  
- Clementina No. 1/20  
- Clementina No. 1C  
- Clementina No. 2/12  
- Clementina No. 2-16  
- 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
Tidewater Materials of Virginia, Inc.  Sure-Shot Utility, (New Orleans Plant)
H. M. Hedrick II  Sure-Shot Utility, (Portsmouth Plant)
P.O. Box 79747
Houston, TX 77224
(713) 468-1402

Union Pacific Resources  Copper Blast medium
Brent Young  Dynacut 100
1380 South 12100 West  Dynacut coarse
Magna, UT 84044  Dynacut medium
(801) 250-9474  Dynacut MSR (fine)

Unimin Corporation  Granusil #16
Charles Collins  Granusil #20
4601 Cascade Road  Granusil #30
Emmett, ID 83617
(208) 365-7153

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

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

44. Waupaca Materials,  Blackjack MSM
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