Illinois Department of Transportation
Bureau of Materials and Physical Research

APPROVED/QUALIFIED PRODUCER LIST OF FINELY DIVIDED MINERALS

July 24, 2015

This list supersedes the May 29, 2015 list.

Standard Specifications for Road and Bridge Construction Section 1010 (Adopted January 1, 2012)

Current Policy Memorandum, "Acceptance Procedure for Finely Divided Minerals Used in Portland Cement Concrete and Other Applications."

For information regarding new product submittal, click the "New Submittal" bookmark to the left.

FLY ASH

SUPPLIER: **Charah Inc**., 12601 Plantside Dr., Louisville, KY 40299
(Contact: Danny Gray, P.E., Ph 502-245-1353 FAX: 502-245-7398

Source	Unit No.	Producer/ Supplier No.	Class	Material Code No.	R Factor [A]	Average Specific Gravity
Louisville Gas & Electric [B] Mill Creek Power Station Louisville, KY	1,2,3,4	52503-05	F	37802	-0.05	2.67
Indianapolis P & L Co. [B] Petersburg Power Station Petersburg, IN	3, 4	52103-12	F	37802	-0.14	2.53

SUPPLIER: **Fly Ash Direct Ltd.**, 4228 Airport Rd. Cincinnati, OH 45226
(Contact Scott Keith, Operations Manager, Ph: 513-871-9733 FAX: 513-871-1974)

Source	Unit No.	Producer/ Supplier No.	Class	Material Code No.	R Factor [A]	Average Specific Gravity
Duke Energy [B] Wabash River Gen. Station West Terre Haute, IN	6	52103-02	F	37802	-0.26	2.40
City Water, Light & Power [B] Dallman Station Springfield, IL	4	51679-01	F	37802	0.09	2.44
Electric Energy Inc./Dynegy,Inc [B,D] Joppa Power Plant Joppa, IL	1,2,3,4,5, 6	51273-01	C	37801	3.39	2.72

SUPPLIER: **National Minerals Corp.,** 2978 Center Court, Eagan, MN 55121
(Contact Travis Collins, Vice President, Ph: 651-454-4151

Source	Unit No.	Producer/ Supplier No.	Class	Material Code No.	R Factor [A]	Average Specific Gravity
Alliant Energy Corporation [B,E] Burlington Station Burlington, IA	1	52203-05	C	37801	4.01	2.70
Alliant Energy Corporation [B,D] M.L. Kapp Power Station Clinton, IA	1	52203-10	C	37801	3.21	2.73
Alliant Energy Corporation [B,D] Ottumwa Station Near Chillicothe, IA	1	52203-02	C	37801	3.40	2.66

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SUPPLIER: **Headwaters Resources**, 290 Timber Ridge Drive, Marthasville, MO 63357
(Contact: Ben Franklin, Director of Technical Services (Central), Ph: 636-828-4780 FAX: 866-449-8109)

Source	Unit No.	Producer/ Supplier No.	Class	Material Code No.	R Factor [A]	Average Specific Gravity
Associated Electric [B,D] Thomas Hill Station Clifton, MO	3	52303-06	C	37801	3.42	2.65
Mid American Energy [B,D] Louisa Station Near Muscatine, IA	1	52203-01	C	37801	3.56	2.65
Sikeston Power Plant [B,D] Sikeston Station Sikeston, MO	1	52303-05	C	37801	2.54	2.60

SUPPLIER: **Headwaters Resources**, 1217 Cape Coral Pkwy E 190 Cape Coral, FL 33904
(Contact: Craig Wallace Technical Director Eastern Division, Ph: 239-565-2338 Fax: 866-449-8108

Source	Unit No.	Producer/ Supplier No.	Class	Material Code No.	R Factor [A]	Average Specific Gravity
Consumer Energy [B,D] J. H. Campbell Power Plant West Olive, MI	1,3	52603-02	C	37801	2.77	2.62
Dynegy Midwest [B,D] Baldwin Power Station Baldwin, IL	3	51573-01	C	37801	3.60	2.75
Dynegy Midwest [B,D] Havana Power Station Havana, IL	6	51253-01	C	37801	4.20	2.74
Dynegy Midwest [B,E] Hennepin Station Hennepin, IL	1, 2	51553-01	C	37801	3.91	2.74
Dynegy Midwest [B,D] Wood River Power Plant Alton, IL	4,5	51193-94	C	37801	3.29	2.70
Lansing Board of Water & Light [B,D] Eckert Station Lansing, MI	1,2,3,4,5, 6	52603-04	C	37801	2.71	2.64

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Source	Unit No.	Producer/ Supplier No.	Class	Material Code No.	R Factor [A]	Average Specific Gravity
Lansing Board of Water & Light [B,D] Erickson Station Lansing, MI	1	52603-03	C	37801	2.55	2.62
Dynegy Midwest [B,D] Newton Power Station Newton, IL	1,2	50793-01	C	37801	3.21	2.68
N. Indiana Public Service [B,D] Schahfer Power Station Wheatfield, IN	15	52103-18	C	37801	2.85	2.65
N. Indiana Public Service [B] Schahfer Power Station Wheatfield, IN	17,18	52103-18	F	37802	-0.10	2.41
Prairie State Generating Co. [B] Prairie State Station Marissa, IL	1,2	51633-07	F	37802	0.06	2.32

SUPPLIER: **LafargeHolcim,** 20408 W. Renwick Rd., Lockport, IL 60441-0089
(Contact Greg Daderko, Technical Director, Ph: 517-228-3742 FAX: 630-505-0330)

Source	Unit No.	Producer/ Supplier No.	Class	Material Code No.	R Factor [A]	Average Specific Gravity
Alliant Power [B,D] Columbia Station Portage, WI	1, 2	52403-03	C	37801	3.41	2.62
Alliant Power [B,D] Edgewater Station Sheboygan, WI	5	52403-05	C	37801	3.18	2.67
EME Midwest Generation [B,D] Joliet Station Joliet, IL	7, 8	51973-64	C	37801	3.80	2.78
We-Energies [B,D] Oak Creek Station Oak Creek, WI	5,6,7,8	52403-06	C	37801	3.35	2.70
We-Energies [B] Elm Road Station Oak Creek, WI	1	52403-09	F	37802	0.37	2.57
We-Energies [B,D] Elm Road Station Oak Creek, WI	2	52403-09	C	37801	1.28	2.62

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We-Energies [B,D] Pleasant Prairie Station Near Kenosha, WI	1, 2	52403-02	C	37801	3.31	2.52
Wisc. Public Service Corp. [B,D] Weston Station Rothschild, WI	1,2,3	52403-07	C	37801	2.78	2.64
Muscatine Power & Water [B,D] Muscatine Station Muscatine, IA	9	52203-04	C	37801	3.95	2.73

SUPPLIER: **Mineral Resource Technologies, Inc. - A Cemex Company,**
920 Memorial City Way Suite 100 Houston, TX 77024
(Contact: Oscar Jaramillo, Engineer/QC Ph: 813-220-6537 FAX: 813-677-7597)

Source	Unit No.	Producer/ Supplier No.	Class	Material Code No.	R Factor [A]	Average Specific Gravity
Ameren UE [B,E] Rush Island Power Station Festus, MO	1, 2	52303-07	C	37801	4.01	2.79
Union Electric [B,D] Labadie Station Labadie, MO	1, 2	52303-04	C	37801	3.45	2.72

Notes B, C, D, and E apply to the Portland Cement Concrete (BDE) special provision which includes alkali-silica reaction mitigation requirements for cast-in-place, precast, and precast prestressed concrete.

[A] **The R value, an indicator of the relative sulfate resistance of a fly ash, is a ratio of calcium to iron oxide expressed as follows: R = (% CaO - 5) ÷ (% Fe_2O_3).**

[B] **The average equivalent available alkali content ($Na_2O + 0.658K_2O$) of this fly ash is ≤ 4.50%. However, this does not ensure that fly ash in subsequent shipments will continue to exhibit these properties. Users are advised to request current test data for equivalent available alkali content when specifying fly ash meeting this requirement.**

[C] **The average equivalent available alkali content ($Na_2O + 0.658K_2O$) of this fly ash is > 4.50%.**

[D] **The average calcium oxide (CaO) of this Class C fly ash is ≤ 26.50%. However, this does not ensure that fly ash in subsequent shipments will continue to exhibit these properties. Users are advised to request current test data for CaO when specifying fly ash meeting this requirement.**

[E] **The average calcium oxide (CaO) of this Class C fly ash is > 26.50%.**

[F] **The fly ash shall not be used in portland cement concrete or cement aggregate mixture II (Article 1010.02 (b)).**

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GROUND GRANULATED BLAST-FURNACE SLAG

PRODUCER/SUPPLIER: **Skyway Cement Company LLC,** 3020 East 103rd Street, Chicago, IL 60617
(Contact: Roberto Carrillo, Quality Supervisor, Ph: 800-643-1808 Ex 5910 FAX: 773-978-6811)

Source	Producer/ Supplier No.	Grade	Material Code No.	Average Specific Gravity
Skyway Cement Company[B] Chicago Grinding Plant 3020 East 103rd Street Chicago, IL 60617	6968-01	100	37821	2.89

PRODUCER/SUPPLIER: **LafargeHolcim,** 2150 E. 130th St., Chicago, IL 62633
(Contact: Srivijay Kalidas, Quality and Process Engineer, Ph: 773-646-3150 FAX: 773-646-3360)

Source	Producer/ Supplier No.	Grade	Material Code No.	Average Specific Gravity
LafargeHolcim [B] South Chicago Grinding Facility 215 E. 130th Street Chicago, IL 62633	6967-08	120	37822	2.90
LafargeHolcim [B] South Chicago Grinding Facility 215 E. 130th Street Chicago, IL 62633	6967-08	100	37821	2.89

Supplier for S.Chicago Facility	Supplier No.	Grade	Trade Name
St. Marys Cement Milwaukee WI Terminal	2207-91	100	CemPlus
St. Marys Cement Manitowoc WI Terminal	2207-92	100	CemPlus

Notes A, B apply to the Portland Cement Concrete (BDE) special provision which includes alkali-silica reaction mitigation requirements for cast-in-place, precast, and precast prestressed concrete.

[A] **The average equivalent available alkali content ($Na_2O + 0.658K_2O$) of this ground granulated blast-furnace slag is > 1.00%.**

[B] **The average equivalent available alkali content ($Na_2O + 0.658K_2O$) of this ground granulated blast-furnace slag is ≤ 1.00%.**

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HIGH REACTIVITY METAKAOLIN (HRM)

PRODUCER/SUPPLIER: **Advanced Cement Technologies, LLC,** 435 Martin St., Suite 2040, Blaine, WA 98231
(Contact: Ken McPhalen, Manager-Technical Services, Ph: 360-332-7060 FAX: 360-332-9321)

Source	Producer/ Supplier No.	Material Code No.	Average Specific Gravity
Grace Davison [B] 213 Kaolin Road Aiken, SC 29801	6206-01	37803	2.63

Notes A, B apply to the Portland Cement Concrete (BDE) special provision which includes alkali-silica reaction mitigation requirements for cast-in-place, precast, and precast prestressed concrete.

[A] **The average equivalent available alkali content ($Na_2O + 0.658K_2O$) of this high reactivity metakaolin is > 1.00%.**

[B] **The average equivalent available alkali content ($Na_2O + 0.658K_2O$) of this high reactivity metakaolin is ≤ 1.00%.**

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MICROSILICA

PRODUCER/SUPPLIER: **Elkem Materials, Inc.,** Rt. 60, Alloy, WV 25002
(Contact: Ed A. Mays, Quality Manager, Ph: 304-779-3200 FAX: 304-779-3244)

Source	Producer/ Supplier No.	Material Code No.	Average Specific Gravity
Elkem Metals Co. [B] Route 60 Alloy, WV 25002	4154-01	37852	2.12

Supplier for WV Source	Supplier No.	Trade Name
Elkem Metals Co.	4154-01	EMS 970D
Euclid Chemical Co.	614-01	Eucon MSA
General Resource Technology	5204-01	EMS 970D
W. R. Grace	767-01	Force 10000D

PRODUCER/SUPPLIER: **Norchem , Inc.,** 985 Seaway Drive, Suite A, Fort Pierce, FL 34949
(Contact :Gary M. Gapinski, Technical Services and QA Manager, Ph: 772-468-6110 FAX: 772-468-8702)

Source	Producer/ Supplier No.	Material Code No.	Average Specific Gravity
Norchem, Inc. [B] P.O. Box 157, County Rd. 32 Beverly, OH 45715	5580-01	37852	2.25
Norchem, Inc. [B] Route 60 East Allow, WV 25002	5580-02	37852	2.20

Supplier for OH or WV Source	Supplier No.	Trade Name
BASF	4179-04	Rheomac SF100
Euclid Chemical Co.	614-01	Eucon MSA
Sika Corp.	2231-01	Sikacrete 950 DP
W. R. Grace	767-01	Force 10000D

Notes A, B apply to the Portland Cement Concrete (BDE) special provision which includes alkali-silica reaction mitigation requirements for cast-in-place, precast, and precast prestressed concrete.

[A] **The average equivalent available alkali content ($Na_2O + 0.658K_2O$) of this microsilica is > 1.00%.**

[B] **The average equivalent available alkali content ($Na_2O + 0.658K_2O$) of this microsilica is ≤ 1.00%.**

Illinois Department of Transportation
Bureau of Materials and Physical Research

APPROVED/QUALIFIED PRODUCER LIST OF FINELY DIVIDED MINERALS

June 29, 2012

This is the initial listing.

BMPR Special Provision for Shrinkage-Compensating Concrete in Bridge Deck Concrete (Effective November 28, 2011)
Current Policy Memorandum, "Acceptance Procedure for Finely Divided Minerals Used in Portland Cement Concrete and Other Applications."

DRY EXPANSIVE COMPONENT

PRODUCER/SUPPLIER: **CTS Cement Manufacturing, Inc.,** 11065 Knott Ave., Suite A. Cypress, CA 90630
(Contact: Ryan Gardner, Quality Manager, Ph: 714-379-8260 FAX: 714-379-8270)

Source	Producer/ Supplier No.	Material Code No.	Type	Average Specific Gravity
CTS Cement Manufacturing,Inc. GCS Cementos, S.A. de C.V. 5 KM AL PONIENTE DEL AEROPUERTO FEDERAL COL CEMENTERA JUAREZ CHIHUAHUA	4894-02	37810	K	2.85

Illinois Department of Transportation
Bureau of Materials and Physical Research

Finely Divided Minerals Used in Portland Cement Concrete and Other Applications Submittal for Testing and Approval

Effective: July 27, 2007
Revised: May 22, 2015

A. Scope

The following guidelines are provided to clarify the submittal requirements and expedite the process for approving finely divided minerals according to the Department's current Standard Specifications for Road and Bridge Construction[1], 2015 Supplemental Specifications and Recurring Special Provisions[2], and Shrinkage-Compensating Concrete in Bridge Deck Concrete (BMPR), and current policy memorandum "Acceptance Procedure for Finely Divided Minerals Used in Portland Cement Concrete and Other Applications" [3].

B. Procedure

When submitting finely divided minerals to the Department, the following shall be included:

For ***Approved Sources*** (approved by the Bureau to ship a finely divided mineral for immediate use on Department projects), refer to Section 4 of the policy memorandum.

For ***Unapproved Sources*** (ships a finely divided mineral which must be sampled, tested, and approved by the Bureau before it is used on Department projects), refer to Section 5 of the policy memorandum. An unapproved source is not permitted for dry expansive component.

In addition to the requirements of the policy memorandum, the following shall be included:

- A signed letter stating the subject material will not be changed without written notification to the Department,
- Contact person's name, title, address, email address, and phone number, and
- Acknowledgement by Company (see next page).

The manufacturer shall submit a minimum 3 kg (6 lb.) sample of the subject material.

The sample and submittal information shall be sent to:

Brian Lokaitis
Illinois Department of Transportation
Bureau of Materials & Physical Research
126 East Ash Street
Springfield, IL 62704-4766

Any sample provided without the required information listed will not be tested. Any changes outside the manufacturer's original parameters will necessitate a new sample submittal. Additional sample submittals shall be according to the policy memorandum.

The manufacturer will be notified when the sample testing is complete. For questions regarding the testing and approval process, contact Brian Lokaitis at 217-782-4028.

[1] http://www.idot.illinois.gov/Assets/uploads/files/Doing-Business/Manuals-Guides-&-Handbooks/Highways/Construction/Standard-Specifications/12SpecBook.pdf
[2] http://www.idot.illinois.gov/Assets/uploads/files/Doing-Business/Manuals-Guides-&-Handbooks/Highways/Construction/Supplemental-Standards-Specifications/2015Supp.pdf
[3] http://www.idot.illinois.gov/Assets/uploads/files/Doing-Business/Memorandums-&-Letters/Highways/Materials/Cement/18-08.1finelydividedminerals.pdf

Illinois Department of Transportation
Bureau of Materials and Physical Research

Finely Divided Minerals Used in
Portland Cement Concrete and Other Applications
Submittal for Testing and/or Approval

Effective: July 27, 2007
Revised: May 22, 2015

Instructions for Acknowledgement by Company:
The owner, partner, or corporate officer shall complete the following and return a signed and dated copy with the product submittal or recertification.

_____ desires to obtain advance approval of materials to be
(Insert name of company)
supplied to Department of Transportation contractors as more fully described herein. I and _____ understand that the Department of Transportation
(Insert name of company)
reserves the right in its contracts to approve materials at the source of supply as provided in Article 106.01 of the Standard Specifications for Road and Bridge Construction. I and _____ further understand that approval of
(Insert name of company)
company supplied material pursuant to this request does not constitute a contract to supply material to the State of Illinois or any of its contractors, and that the Department of Transportation does not assure or guarantee that any materials approved hereunder will be supplied to the State or any of its contractors. In consideration of approval, I and _____ agree to the terms, conditions and performance
(Insert name of company)
standards of the Standard Specifications for Road and Bridge Construction.

Type of Company: Individual ☐ Partnership ☐ Corporation ☐

Company Name _____

Printed Name _____

Signature _____

Title _____

Business Address _____

City/State/Zip Code _____

Date of Signature _____