COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2113-12

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 701.02.01.00

FOR INTERNAL CDOT USE

Material code description full name: Fly Ash, Class C

PART 1

Product name: Pawnee Class C Fly Ash

Product category: Concrete\Pozzolan\Fly Ash, Class C

Product representative (name & address):
Attn: Melissa Garcia
Boral Material Technologies, Inc.
45 N.E. Loop 410, Suite 700
San Antonio, TX 78216
Phone: (210) 241-1595 FAX: (210) 349-8512

Manufacturer (name & address):
Attn: Mr. Barry Andrews
Xcel Energy, Plant Pawnee
14940 Morgan County Road, #24
Brush, Colorado 80723
Phone: (970) 518-3773 FAX:

Web-site address: www.boralmti.com

Web-site address: www.xcelenergy.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
Boral class C fly ash from Plant Pawnee conforms to ASTM C 618 and AASHTO M 295 Class C requirements. It is a pozzolan and manufactured at the Pawnee Plant near Brush, Colorado. It may be used to increase concrete durability. It can reduce concrete permeability, lower heat hydration, reduce water requirements, and improve finishability.

Restrictions, (installation and/or use):
The use of Class C fly ash should not be used in a sulfate environment unless the material has been tested via applicable ASTM testing standards.

Use of the product, (be specific to CDOT highway activities only):
Used for projects requiring high strength, and high durable concrete. May be used in soil stabilization type projects.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
May be used as a partial replacement for cement. Provides an impermeable concrete and a durable concrete, therefore having the ability to extend the life of service of the concrete.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- [x] CDOT : Standard Specifications 701.02
- [x] ASTM : C 618-12
- [x] AASHTO : M 295-11
- [ ] FHWA :
- [ ] other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- [ ] NTPEP-AASHTO :
- [ ] FHWA :
- [x] other : San Antonio Laboratory, Inc. (8-25-2011) - NELAP Accredited
- [ ] other :

State DOT Approvals, (current documentation required):

Sample submitted: [ ] yes [x] no [ ] n/a

Materials Safety Data Sheets (MSDS): [x] yes [ ] no [ ] n/a

Notes/Additional Comments
Sample can be submitted at no cost to CDOT.