



Oregon

Kate Brown, Governor

Department of Transportation

Construction Section

800 Airport Road SE


Salem, OR 97301

Phone: (503)986-3000

Fax: (503) 986-3096

Date: March 8, 2018

To: OCAPA Members

From: 
Scott D. Nelson, P.E.
Structure Services Engineer

Subject: Fly ash Shortage

It has been brought to ODOT's attention that there is an impending fly ash shortage that could affect this upcoming 2018 construction season. In an effort to alleviate impacts to schedule and any confusion related to mix design approval we would like to provide the following guidance:

All Structural concrete containing fly ash at the supplier's choice:

Replace fly ash with Ground Granulated Blast Furnace Slag (GGBFS) at the same percentage, either pound for pound or volumetrically. Adjust aggregate proportions appropriately. Submit a revised mix design. For HPC mixes, perform trial batches and report shrinkage and permeability values as Information Only. For all other Structural Concrete, no trial batches are required if the mix design was previously approved on the basis of a trial batch or previous mix performance. Otherwise perform trial batches as per the specifications.

Although no trial batch may be required for approval of the substitution, it is strongly recommended that some form of testing be performed to ensure workability and specification plastic properties.