

ASH FLUIDIZATION SYSTEM AND METHOD

ABSTRACT

A system (120) for fluidizing ash in a duct (124) of a selective catalytic reduction system. The system (120) includes a duct (124), a source (126) for generating compressed air, and an air injection header (128) joined with the source (126) and joined with the duct (124) via one or more holes (130) in the duct (124). The air injection header (128) is adapted to inject compressed air from the source (126) to the areas of the duct prone to dust build-up. The air injection header (128) includes a sub-header (132) joined with a plurality of injection lances (134). Each of the plurality of injection lances (134) has an end nozzle (136). The end nozzle (136) may have a mushroom cap (137) or an angled end configuration to direct air in a particular direction.

FIGURE 3A