

Figure I-1

Exposure Potential According to Occupational Duties

Job Title	Description/Exposure^a	General Practice Recommendations^{a,b}
Administrative personnel	Clerical, legal, environmental, and administrative support for operations - limited exposure potential unless entering production areas - cement plant AFR manager may receive exposure to AFR samples	No protective equipment. Restricted from entering active plant areas.
Commercial and Business Development Staff	Identification of and contracting for acquisition of AFR materials - limited exposure potential unless entering production areas - potential exposure to sample waste materials	No protective equipment. Restricted from entering active plant areas.
Sample takers	Collect samples of AFR materials and transport to lab for analysis - inhalation and limited dermal contact with waste materials	Hard hat, Tyvek coveralls, eye/face protection, latex gloves, steel-toed boots. AFR-specific PPE. c
Laboratory and Quality Control	Provide chemical analysis of AFR materials - potential exposure to laboratory chemicals and AFR materials	Adherence to laboratory health and safety procedures.
Materials Transport Personnel	Raw materials and alternative fuel transport - typically outsourced personnel - parent company responsible for training - limited exposure during materials transfer - inhalation and limited dermal contact	Hard hat, cloth coveralls, eye/face protection, leather gloves, steel-toed boots. AFR-specific PPE if handling materials. c
Materials handlers		
Alternative raw materials	Sorting and moving raw materials with heavy and light equipment - inhalation, incidental ingestion, and dermal contact	Hard hat, cloth coveralls, eye/face protection, leather gloves, steel-toed boots. AFR-specific PPE if handling materials. c
Alternative fuels	Pumping liquid materials, transferring solid materials with heavy and light equipment - limited exposure during materials transfer - inhalation, incidental ingestion, and dermal contact	Hard hat, Tyvek coveralls, eye/face protection, leather gloves, steel-toed boots. AFR-specific PPE if handling materials. c
Barrel decanters	Transfer liquid waste materials from barrels and carboys - potential for inhalation and dermal contact with waste materials	Hard hat, Tyvek coveralls, eye/face protection, leather gloves, steel-toed boots. AFR-specific PPE if handling materials. c
Plastic chippers	Transfer waste plastics to the chipping processing line - inhalation and limited dermal contact with waste materials	Hard hat, Tyvek coveralls, eye/face protection, leather gloves, steel-toed boots. AFR-specific PPE if handling materials. c
Waste mixers	Transfer contents of tank trucks to concrete pits. Control blending of waste materials - inhalation and limited dermal contact with waste materials	Hard hat, Tyvek coveralls, eye/face protection, leather gloves, steel-toed boots. AFR-specific PPE if handling materials. c
Production line personnel	Maintain blending machinery, removing obstructions and rejected materials - inhalation and limited dermal contact with waste materials	Hard hat, cloth coveralls, eye/face protection, leather gloves, steel-toed boots.
Product storage and dispatch	Pneumatic loading of blended products to delivery trucks or on-site storage - limited potential for inhalation or dermal contact with waste materials	Hard hat, cloth coveralls, eye/face protection, leather gloves, steel-toed boots.

^a Exceptions to these default descriptions, levels of protection and general practices are anticipated. Facility-specific practices take precedence as long as health and safety is not compromised.

If coveralls, gloves, and eye/face protection are recommended, ensure that the material listed (e.g., Tyvek, latex) is appropriate for the AFR being handled.

^b Text Section VI and Tables VI-2 and VI-3 present AFR-specific and indicator chemical-specific information regarding appropriate personal protective equipment.