

Position Title	<i>Fire Protection Engineer</i>		
Location	<i>RAL</i>	Job Level	<i>Comp Team</i>
Department	<i>Engineering – Centers of Excellence (COE)</i>	FLSA	<i>Exempt</i>
Reports to	<i>Director of Engineering - COE</i>	Direct Reports?	<i>Y or N</i>

Job Purpose

Reporting to the Process Engineering Manager, the Fire Protection Engineer will serve as the primary subject matter expert on fire protection and explosion protection for Enviva’s wood biomass facilities. The scope of this role includes oversight of multiple wood pellet manufacturing plants and multiple wood pellet shipping ports. This position will also integrate into the overall Operational Excellence Management System (OEMS) and be responsible for liaising with various groups within Enviva including the Operations Teams, the Environmental, Health, and Safety (EHS) Teams, the Maintenance and Reliability Teams, and the Construction Teams.

Responsibilities

- Develop, document, deploy, maintain, and continuously improve design and engineering specifications for equipment and controls necessary to prevent, detect, suppress, and mitigate the impact of fire and explosion hazards.
- Facilitate problem solving and root cause investigations related to fire events with local maintenance, plant engineering, EHS, regional engineering, and maintenance personnel.
- Provide guidance to both manufacturing plants and shipping ports for troubleshooting and operation of fire protection equipment including, but not limited to portable fire extinguishers, fire pumps, fire alarm systems and components, automatic sprinkler systems, fire hydrants, underground water supplies, and spark detection and extinguishing systems.
- Develop, document, deploy, maintain, and continuously improve proactive maintenance and reliability strategies for equipment and controls necessary to prevent, detect, suppress, and mitigate the impact of fire and explosion hazards
- Establish the necessary fire protection and explosion protection equipment required for new construction and existing facility expansion projects.
- Develop relationships with key vendors of equipment and services related to the prevention, detection, suppression, and mitigation of fire and explosion hazards.
- Assist with the development and updating of Process Hazard Analysis (PHA) to assess the risks and identify controls for mitigating fire and explosion hazards.
- Support facilities in the development of Emergency Response Plans for fires and explosions and evaluate the effectiveness of plans through periodic drills.
- Drive completion of installations and commissioning of fire protection and explosion protection equipment for new construction and existing facility expansion projects.

Required Qualifications

- Bachelor's degree in fire protection engineering or similar safety discipline.
- Minimum 5 years of experience in a high hazard manufacturing industry.
- Strong problem-solving skills and the application of problem-solving tools such as cause mapping and fault tree analysis.
- Experience conducting Process Hazard Analysis, Combustible Dust Hazard Analysis, Failure Modes Effects Analysis, or pro-active risk identification and assessment methodologies.
- Knowledge and practical application of National Fire Protection Association (NFPA) Codes and Standards.
- Knowledge and practical application of International Code Council Codes and Standards.
- Knowledge and practical application of concepts related to fire and explosions such LFL/UFL, minimum explosive concentration, minimum ignition energy, Kst values, Pmax values, combustible dust testing, pyrolysis, and flame propagation.
- Knowledge of and operational experience with equipment utilized for the prevention, detection, suppression, and mitigation of fire and explosion hazards including spark, thermal, and gas detection equipment, water and chemical suppression and isolation systems, application of nitrogen, carbon dioxide, and other inert gases, automatic and manual suppression systems, fire alarm and notification systems, and explosion venting.
- Working knowledge of NFPA 68 and 69.
- Knowledge of equipment and techniques for fighting industrial fires.
- Must be data-driven and possess a high level of attention to detail.
- Working knowledge of industrial electrical, mechanical, and controls systems.
- Excellent communication, interpersonal, and team leadership skills.
- Highly proficient in Microsoft Word, Excel, and PowerPoint with the ability to learn other applications related to the job.
- Must be a self-starter with ability to prioritize workload.
- Must be able to balance work demands across multiple projects and physical locations.

Preferred Qualifications - What Will Set Them Apart

- Master's degree in fire protection engineering or safety related field.
- 5 years' experience in a wood products processing industry.
- Experience working as facility or owner of fire protection program or systems.
- Experience inspecting or testing fire protection equipment.
- Construction experience.
- Advanced knowledge of NFPA 652 Standard on the Fundamentals of Combustible Dust and NFPA 664 Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities.
- Operating experience with multiple mechanical, electrical and controls systems.
- Proficiency in CAD software (preferably AutoCAD or SolidWorks).
- Knowledge of controls engineering.
- Ability to read PLC logic a plus.
- Six Sigma Certification (GB or BB) a plus.
- Lean/Continuous Improvement experience.

Working Conditions

- N/A

Physical Requirements

- N/A

Travel Requirements

- First year 80%+, after between 80% and 25% (project dependent)

EEO Statement

Enviva is dedicated to the principles of equal employment opportunity (EEO) in any term, condition or privilege of employment. Enviva does not discriminate against applicants or employees on the basis of race, color, creed, religion, sex, national origin, age, physical or mental disability, ancestry, marital status, sexual orientation, gender identity or expression, veteran status, uniform service member, genetic information or any other status protected by law. Enviva complies with applicable state and local laws governing nondiscrimination in employment in every location in which we operate.

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