

The logo for Jupiter Aluminum features the word "JUPITER" in a bold, black, sans-serif font. The letter "E" is stylized with a blue horizontal bar. Below "JUPITER" is the word "ALUMINUM" in a smaller, black, sans-serif font, followed by a trademark symbol (TM). A blue arc is positioned to the right of the text, partially enclosing it.

JUPITER
ALUMINUM™

A decorative graphic consisting of several parallel, light blue diagonal lines that extend from the bottom left towards the top right of the page, crossing behind the main text.

ENVIRONMENTAL
MANAGEMENT
SYSTEM



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Company Profile

Jupiter Aluminum, founded in 1992, is a privately held, aluminum coil manufacturer headquartered in Des Plaines, Illinois. Jupiter produces aluminum coils with 97% recycled aluminum scrap using Oxy-fuel powered furnaces.

General Information

Management Sponsorship

Jupiter Aluminum's internal structure allows for effective management of the environmental impacts associated with aluminum scrap melt and roll production. Jupiter has assigned the Environmental Health and Safety (EHS) Director, as its Environmental Management Representative (EMR). This employee has the appropriate responsibility, authority, and resources to implement and maintain Jupiter's environmental management processes. Beyond the operations of the EMS, the EMR will also be responsible for leading the development of the Aluminium Stewardship Initiative (ASI) program. In addition to the EHS Director, Jupiter has sponsored an internal Sustainability Steering Committee (SSC) to support the continuation of these practices. For more details regarding the SSC, please review the SSC Charter.

Purpose

Jupiter Aluminum is in solidarity with the United Nation's effort to mitigate and manage the impacts associated with global climate change. Therefore, Jupiter has developed an Environmental Management System (EMS) that documents the systems that identify and remediate the entity's environmental impacts. The purpose of this manual is to provide an overview of the methodology.

Scope

This management system applies to Jupiter Aluminum Corporation and the directors, officers, and employees within.

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Environmental Policy

Purpose

As a strong advocate for the preservation of the environment, Jupiter is committed to maintaining and growing sustainable practices within its manufacturing operations. This policy outlines Jupiter’s environmental framework, objectives, and ideology. Jupiter’s goal is to supply customers with quality aluminum coils that meet their needs while maintaining the safety of its employees, community, and the environment.

Jupiter Aluminum is mindful of the impact its activities and products have on the environment, and of its role in developing solutions for our customers with due regard for environmental care. Jupiter is also aware that large international companies play a vital role in sponsoring sustainable development and providing stewardship of environmental resources for future generations. Accordingly, Jupiter Aluminum’s emphasis on value generation, melting efficiency and material competitiveness must be well-suited to both the environment in which it operates as well as with the interests of its stakeholders.

In accordance with these objectives, Jupiter has implemented this policy to deliver a continuous impact assessment and reduction plan for the environmental impacts associated with its coil semi-fabrication process.

Policy Components

Legal Framework

Jupiter Aluminum strongly promotes a legal management framework dedicated to sustainable practices. The legal framework for Jupiter’s actions is embodied by existing laws and the standards adopted by the Entity related to the prevention of pollution and the reduction of negative environmental impacts. It hopes to provide clear direction to all stakeholders about the organization’s environmental goals to provide an ethical and fiscally manageable risk profile. Additionally, Jupiter believes that responsibility goes along with accountability and that conducting business requires commitment beyond current legal environmental requirements. This ideology permeates from the board of directors to the hourly production team.

Industrial Management System

Jupiter Aluminum’s environmental program requires the implementation of systems that assure compliance and continuous improvement of its environmental performance. Each operation is required to conduct its activities to support pollution prevention and the efficient use of energy and natural resources. To support continuous improvements, the production plants define specific strategies and targets to work toward, and results are benchmarked to assess further improvements and corrective actions.

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Output Reduction Plan

Jupiter is committed to minimizing its environmental impacts through production process improvements aimed at reducing the amount of raw materials used, energy efficiency and emissions reductions.

The Entity aims to:

- reduce energy consumption through efficient production processes;
- reduce emissions of greenhouse gases and other pollutants;
- reduce the use of raw material by improving recycling input ratio and by using environmentally responsible packaging;
- reduce consumption of fresh water in Jupiter’s production processes and limit discharges of hazardous substances from manufacturing which may affect water supplies;
- reduce the production of waste in Jupiter’s production processes;
- minimize impacts to natural habitats and their biodiversity in areas surrounding its production plants.

Emergency Action Plan

Jupiter Aluminum has maintained a stringent Emergency Action Plan (EAP) in accordance with US and international standards for environmental protection. This plan outlines the best practice procedure for impact mitigation in the case of an environmental emergency. Please find more information regarding the specific processes within Jupiter’s EAP documentation.

Employee Involvement

Each of Jupiter’s employees is responsible for conducting their daily activities in a manner that is protective of the environment and in full compliance with all applicable regulations and company procedures. All employees are provided with information regarding these procedures and regulations during the onboarding and refresher training.

Sourcing Strategy

Jupiter Aluminum asks all members of its value chain to comply with Domestic and International (when applicable) regulations and best practice and to implement measures and standards that comply with this Policy. Jupiter will be conducting due diligence on its core scrap supply streams to properly assess regulatory and ethical risk areas including environmental stewardship, human rights, conflict affected and high-risk areas, and Anti-Corruption/bribery.

Integrated Life Cycle analysis

Jupiter Aluminum is an advocate for the continuous assessment of impacts associated with the semi-fabrication of aluminum. This assessment must include the entire lifecycle inventory of aluminum semi-fabrication from melting to rolling. Jupiter is partnered with the US Aluminum Association (AA) in providing quantification data for this assessment to create accurate readings that provide insight into areas of impact and improvement.

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Impact Management

Jupiter Aluminum emphasizes the potential for improvement in the environmental performance of its production processes through proper impact analysis and mitigation systems. These allow the Entity to effectively manage the development of innovative solutions for process improvements.

Jupiter Aluminum’s Annual Sustainability Report provides stakeholders with regular updates on key data, targets and other information relating to the Entity’s environmental performance.

Environmental Code of Conduct

Jupiter Aluminum conducts all its operations in a responsible manner to protect the environment. In order to maintain this standard, every employee at Jupiter must be aware of the considerations associated with Jupiter’s Environmental policy and act accordingly.

Guidelines

- conduct daily activities in a manner that is protective of the environment and in full compliance with all department regulations and company procedures;
- reduce consumption of resources through waste management strategies that promote waste minimization re-use, recovery, and recycling, as appropriate;
- ensure awareness of the environmental impacts of work activities and participate in awareness programs to minimize those impacts.

Oxy-Fuel Technology

Since 1997, Jupiter Aluminum has been using a technology focused on reducing fuel use and air emissions. The patented fossil fuel combustion technology called “high-temperature flame Oxy-fuel technology,” utilizes a high temperature flame with 95% to 100% pure oxygen for combustion to avoid any airborne nitrogen. Lower nitrogen levels mean that there is more combustion energy available for energy production. The oxy-fuel flame burns at a much higher temperature and generates far more radiant energy transfer than, for example, an air-coal flame. Radiant heat transfer is far more efficient than convective heat transfer.

In addition, the combustion technology operates at or very close to stoichiometric conditions and creates longer residence times which allows for a more efficient burn of the fuel and more time for the generated energy to be absorbed. The unique integration of these four processes allows combustion to become much more efficient and use significantly less fuel.

Aluminum Process Scrap

Jupiter Aluminum manufactures coils using 97% recycled aluminum scrap and 3% primary aluminum. Scrap is purchased by alloy, delivered, inspected, and commingled to produce Jupiter’s product. Jupiter maintains dedicated procedures for internal scrap inspection. It uses strict aluminum scrap specifications that define the types of scrap units that can be used in the manufacturing process. Aluminum scrap series such as Re-melt Scrap Ingots, No Ink Litho Sheet, Aluminum Light Ink Litho Sheet, Aluminum Wire and Cable (bare) and Old Coils, MLC (Mixed Low Copper, Aluminum Clipping, and Solids), Segregated

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Aluminum Alloy Clippings and Solids, Used Beverage Cans, Painted 3004 Aluminum, and Painted Aluminum Siding are all included. Scrap is sorted at the suppliers’ facilities before transfer to Jupiter’s manufacturing location.

Risk Assessment Protocol

To properly assess the impact associated with Jupiter Aluminum’s processes, Jupiter maintains a Risk Assessment Protocol. This protocol is conducted by Jupiter’s EHS Director or their designee and is guided by the following principles:

- a. identify hazards;
- b. determine potential for harm;
- c. identify and implement corrective measures;
- d. monitor effectiveness of corrective measures;
- e. review and improve process and corrective measures if needed.

Environmental Life Cycle Assessment

Jupiter Aluminum does not have internal resources to conduct its own cradle to gate analysis, however it is committed to assisting the US Aluminum Association (AA) in its Life Cycle Assessment research. Jupiter has provided data to the AA in order to support a comprehensive life cycle analysis. The AA’s first LCA was published in 2013. Please find the most recent LCA [here](#).

Sustainability Reporting

Jupiter Aluminum’s governance strategy entails a transparent sustainability reporting system that benchmarks the cradle to grave impact of its operations from an environmental impact perspective. Jupiter’s annually updated report may include data on air emissions, greenhouse gasses (GHGs), waste disposal, significant spills, and water use.

Greenhouse Gasses (GHGs) and Energy Use

Jupiter Aluminum compiles energy use statements from its utility provider to track consumption on a monthly basis. Jupiter leverages the EPA standardized emission factors in coordination with the Greenhouse Protocol Standard Methodology to calculate the GHG emissions from each individual furnace.

In 1997, Jupiter Aluminum implemented an energy use reduction plan for its aluminum re-melting process. This plan targeted natural gas and electricity consumption.

This plan utilized Oxy fuel technology and thermal efficiency improvements to reduce natural gas use per pound of aluminum melt by 80%.

Jupiter Aluminum is committed to further reduce its GHG emissions. The following are core components for this reduction effort.

- Process Improvement
- Clean Energy Sourcing
- Technology innovation

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Air Emissions

The emissions reporting rule, 326 IAC 2-6, requires air emission sources over emission thresholds to report their actual emissions of certain pollutants to the department annually or triennially. The information is used for a variety of purposes including planning, trends analysis, modeling, and billing. This data contains the facility's name, plant ID and reported criteria pollutant emissions. The criteria pollutants are Volatile Organic Compounds (VOC), Carbon Monoxide (CO), Nitrogen Oxides (NOx), Sulfur Dioxide (SO2), and Particulate Matter less than 10 microns in diameter (PM10).

Spill and Leak Management

Jupiter regularly monitors for potential spills and leaks. Please see Jupiter's Spill Prevention, Control and Countermeasure plan for more information.

Dross

Jupiter Aluminum continuously seeks out alternatives to direct landfilling of its Dross. Jupiter aims to maximize aluminum dross recovery through internal and external treatment processes.

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Review and Revision Log

Reviewer(s)	Date	Revisions
Mark Volkmann Bill Kenealy Vickie Smith Laura Dinger	May 2022	Changed titles: CFO to Vice President, Finance; Human Resources Director to Vice President, Human Resources; Director of Manufacturing to Vice President, Manufacturing. Corrected some spelling and grammar errors.
Mark Volkmann	June 2023	Updated to new corporate logo.

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