

MIRR•TR•N

THE WORLD OF NEUTRON

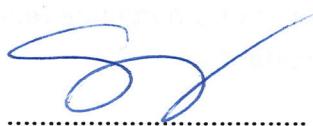
ENVIRONMENTAL MANAGEMENT SYSTEM

MIRROTRON LTD.

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I. OVERVIEW

Mirrotron Ltd. operates a structured Environmental Management System (EMS) designed to ensure sustainable, efficient, and legally compliant management of all our activities. While Mirrotron does not hold ISO 14001 certification, our EMS is closely aligned with ISO 14001 principles and incorporates the core elements of environmental planning, operational control, monitoring, and continuous improvement. The EMS is reviewed annually by senior management to ensure its ongoing effectiveness.

II. ENVIRONMENTAL GOVERNANCE AND COMPLIANCE

Environmental responsibilities are embedded throughout the organization. Overall accountability lies with senior management, while day-to-day oversight is provided by our qualified external Safety and Environmental Expert. He monitors compliance, conducts annual and ad-hoc environmental audits, maintains our environmental and legal registers, and ensures that evolving EU and UK environmental legislation is integrated into our operations. All staff receive induction and role-specific environmental training, and related records are maintained under our document control system.

III. ENVIRONMENTAL PLANNING AND RISK MANAGEMENT

Mirrotron maintains a *Job Safety Analysis* covering all operational processes. This register identifies significant environmental aspects—including chemical handling, fire safety, secure storage, and waste generation—and prioritises them based on risk and legal relevance. Preventive measures, pollution-control procedures, and emergency response plans are in place to reduce the likelihood and impact of any incident.

IV. OPERATIONAL CONTROLS AND SUSTAINABILITY POLICIES

The EMS is supported by three formal Sustainability Procedures that govern metal machining, neutron guide manufacturing, and packaging/logistics operations. These procedures ensure responsible material selection, the use of low-toxicity and long-life machining fluids, recycling of metal offcuts, and strict handling of hazardous residues.

through licensed waste carriers. In packaging and logistics, Mirrotron prioritizes recyclable and reusable materials, minimises packaging volume, consolidates shipments, and maintains a crate-return (reverse logistics) system to reduce new material demand.

In our neutron guide manufacturing processes, we embed resource efficiency and pollution-prevention measures at every stage, ensuring that environmentally responsible practices are integrated into specialised high-precision fabrication work.

V. ENERGY EFFICIENCY AND CARBON REDUCTION

Mirrotron is committed to reducing its carbon footprint. Our metal machining operations are almost exclusively powered by onsite solar generation, lowering reliance on external electricity and reducing Scope 2 emissions. Machine efficiency, idle times, and energy consumption data are continually reviewed to identify opportunities for further optimisation.

VI. RESOURCE USE AND WASTE MANAGEMENT

We focus on sustainable resource use by preferring environmentally friendly coolants, lubricants, and packaging supplies. Waste streams are segregated at source, with metals, cardboard, plastics, and timber prepared for recycling. Hazardous wastes are stored under strictly controlled procedures and removed by licensed waste carrier. Waste reduction targets form part of our annual environmental objectives.

VII. MONITORING, PERFORMANCE, AND CONTINUOUS IMPROVEMENT

Mirrotron monitors key environmental indicators including energy consumption, waste generation, recycling rates, and logistics efficiency. Findings from inspections and audits are used to define corrective actions and to inform measurable annual improvement targets. Results are reviewed by senior management and communicated internally, ensuring continual improvement. Mirrotron communicates environmental information to clients and maintains transparent communication regarding sustainable product handling.

