

Ammunition Demilitarisation Plant

CAPABILITY SHEET - COLD CUTTING, HANDLING & RECOVERY - ENGINEERED TO ORDER

THE PREMISE

THE WORKPIECE	A machine tool assumes an inert workpiece. This one cannot: the item is energetic, and being life-expired its condition is by definition unknown.
NEVER ZERO	You can reduce the probability of an initiation a long way. You cannot reach zero - and you certainly cannot demonstrate that you have.
SO THE DESIGN CASE	The plant is designed like a pressure vessel: assume the event, contain it, relieve it deliberately, and keep people out of the envelope.

KEEP IT COLD

WHY WATERJET	Thermal cutting adds heat. Mechanical cutting adds friction. An abrasive waterjet adds neither - it erodes rather than shears, and floods the cut.
THREE JOBS, ONE PIPE	The water carries the abrasive, cools the cut face, and keeps liberated material wet and therefore desensitised. Three safety functions, one supply.
THE INTERLOCK	So the primary interlock is not on the cutting head. It is on the water: one loss degrades all three functions, and the cut itself looks unchanged.

WHAT COMES OUT

A MIXTURE, NOT SCRAP	Cutting yields a slurry of energetic material, metal, spent abrasive and water. None may simply be discharged; all of it must be accounted for.
SIZED ON THE CUT	Separation is sized against the cutting rate, not a pump duty. Cut faster than the plant can settle and the slurry backs up into the cell.
WHERE THE VALUE IS	Recovered material and clean metal carry value. Open burning carries only cost and a lasting liability - which is the whole economic case.

CERTIFY & ENGAGE

WHY A LABORATORY	Nothing may be certified as recovered, or safe to discharge, until it is measured. A plant whose output cannot leave simply fills up and stops.
HANDLING	Life-expired stock is at its most fragile when it is moved. Conveying is gentle, single-file, non-sparking, interruptible and free of any trap.
ENGAGEMENT	Send the stock profile and condition, the throughput, the site and its safety distances, and the authority to satisfy, to sales@neometrixgroup.com .

DEFENCE PROGRAMMES DESK

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