

## INDUSTRY AND UTILITY SERVICES.

### DEMOLITION METHODS.

Because of the scope of the field, it is not possible to give detailed advice as to the methods applicable to each specialised industry, and in any case it is not the intention of this code to teach the expert his own job. It is essential, however, that in formulating plans, special attention should be paid to certain equipment and the following are notes in that connexion given in order of their importance.

#### (1) Machine Tools:

All metal working and repair machines such as lathes, (destroy driving gears); drills, (destroy saddle and drive); presses (smash flywheel and clutch mechanisms); Shapers (smash slides); Planers (smash gearing and drive); milling machines (smash drive); etc.

#### (2) Power Unit:

With electric motors, smash the casing, end bearings, field wiring, comutators and armatures with a heavy sledge hammer or other suitable instrument. With large motors (around the 150 H.P. class), which are too large to smash with a sledge hammer, keep an oxygen torch handy, or a few pounds of explosives for the bearing arms.

With boilers, screw down the safety valve, cut off the feed water and build up a large fire.

With internal combustion engines, drain or smash the sump and radiator and run the engine at top speed. After seizing, smash the cylinder head, then the distributor or injector.

#### (3) Welding Plants:

With electric plants, smash switchboards and cutting and welding torches.

Release all supplies of oxygen and acetylene and smash torches for others.

Smash all blow lamps.

#### (4) Furnaces - Smash casing of blower.

#### (5) Compressors - Smash cylinder block.

#### (6) Precision Tools and Gauges:

Remove to a place of safety or grease well, wrap in a cloth and bury in some place remote from the factory, otherwise smash or throw into the sea, river or lake.

In addition to the above, smash some vital part of each machine in the factory; perhaps with a sledge hammer; perhaps in some cases (such as metal tempering vats), cut with an oxygen torch.

In all cases - remember that the enemy will destroy when driven out - so don't leave him anything that he can use.

## HINTS FOR SPECIALISED INDUSTRIES:

The following suggestions, under specialised industry headings, are additional to and may be used to supplement the methods based on the denial of fundamental plant already given. They should be used to make the job more thorough, and not as the basic denial method, since the basic methods are devised on the principle of the prevention of rehabilitation by the enemy by the putting together of "bits and pieces" collected from different partially demolished plants.

### Breweries, distillaries and wine industries.

Destroy stills, burst digester, damage vats and run contents to waste. Smash all kegs, casks and bottles and allow contents to run to waste. If underground, contaminate with kerosene or petrol.

### Flour and rice mills.

Remove rolls and bury or throw into a river or lake as far distant as possible from the mill.

### Dairy produce factories.

Destroy or remove and bury in some remote place, or drop down well, all valves, taps etc. on milk cream vats and vacuum pans. The bowls of separators should be treated similarly. Water pumps are to be rendered useless.

### Abattoirs and butcheries.

Smash refrigeration and by-products plant. The former is important.

### Sugar Refining.

Destroy boilers, centrifuges, vacuum plant and vacuum pans. Run alcohol and molasses to waste. Destroy distillery, fractionating columns and stills, burst digester, damage vats and remove taps and valves and bury, or destroy, or throw them into a river or the sea.

### Canneries.

Destroy can-making machinery.

Agricultural Implements: No additional action required.

Aluminium Manufacture: No additional action required.

Brass and Bronze Manufacture: No additional action required.

### Electro Platers.

Remove or destroy anodes of special metal such as nickel, chromium, silver, etc. Destroy vats and special generators.

Engineering, Foundry and Boilermaking: No additional action.

Farriers and Blacksmiths: Wreck forges. Bury or destroy hand tools.

Galvanising: Smash metal baths.

Iron and Steel Production.

The motors of overhead lifting gear and cranes should be covered in action details. Explosives, if obtainable, should be used in the case of heavy machines, such as rolling mills, hammers, etc. Hammers can be used for the smashing of essential parts of machines and for tools.

Machinery Manufacture: No additional action.

Mining and Ore Treatment Plants: See details under "Coal Mines".

Motor Industry: Destroy machinery operating presses.

Nails, Barbed Wire, Bolts and Nuts:

Attention to be paid to presses and wire drawers.

Nickelware Manufacture: As for Electro-platers.

Plumbing and Hot Water Engineering: No additional action.

Refrigeration:

Destroy motors, compressors, and smash some part of system to allow gas to escape.

Repair Equipment, Garages, etc.:

Destroy plant and compressors. (Also see special detail for garages).

Saw Mills:

Break saws completely - don't just smash teeth as these can be re-cut.

Shipbuilding: Destroy slips, crane mechanisms, etc.

Spring Makers: Destroy tempering vats.

Tinsmiths and sheetmetal works: No additional action.

Toolmakers:

It is of great importance that as much of the tool-making plant and equipment as possible be removed to a safe area.

Wire Rope: No additional action.

Fences and Gate Manufacture: No additional action.

Boot Factories:

Destroy all small machines with a sledge hammer, destroy pattern cutting knives.

Leather Trades: Destroy all motors and vats.

Ropes and Twines: No further action necessary.

Tents, Sails, Canvas Goods: Destroy sewing machines.

Woollen and Cotton Weaving, Spinning and Knitwear:

Destroy spindles and shuttles, etc.

Ammonia Manufacture:

Remove or destroy catalyst, and small ammonia catalyser.

Arsenic Production and Refining: No additional action.

Dry Battery Manufacture: No additional action.

Explosive Manufacture: Fire raw materials.

Glue, Glycerine and Soap Manufacturers: Destroy vats.

Optical Glass Manufacture: Destroy grinders, etc.

Pharmaceutical and Chemical Manufacture:

Destroy reagent, retorts, vats,

Photographic Apparatus and Materials: Burn.

Oil Refining and Distribution:

Destroy retorts, tanks and all other machinery and equipment.

Paint and Varnish Factories: Burn.

Rubber Industry: Destroy rolls and vulcanising units.

Precision Instruments:

Destroy all instrument making and repairing machinery and equipment.

THE ABOVE ARE NOTES AND CONCISE METHODS FROM  
THE INDUSTRIAL CODE.