

MAGNOX DECOMMISSIONING DIALOGUE

TIMESCALES WORKING GROUP

SAMPLE RADIOACTIVE WASTE INVENTORY

THE UNITED KINGDOM RADIOACTIVE WASTE INVENTORY

CLIENT: THE ENVIRONMENT COUNCIL

REPORT REF: R3069-A2

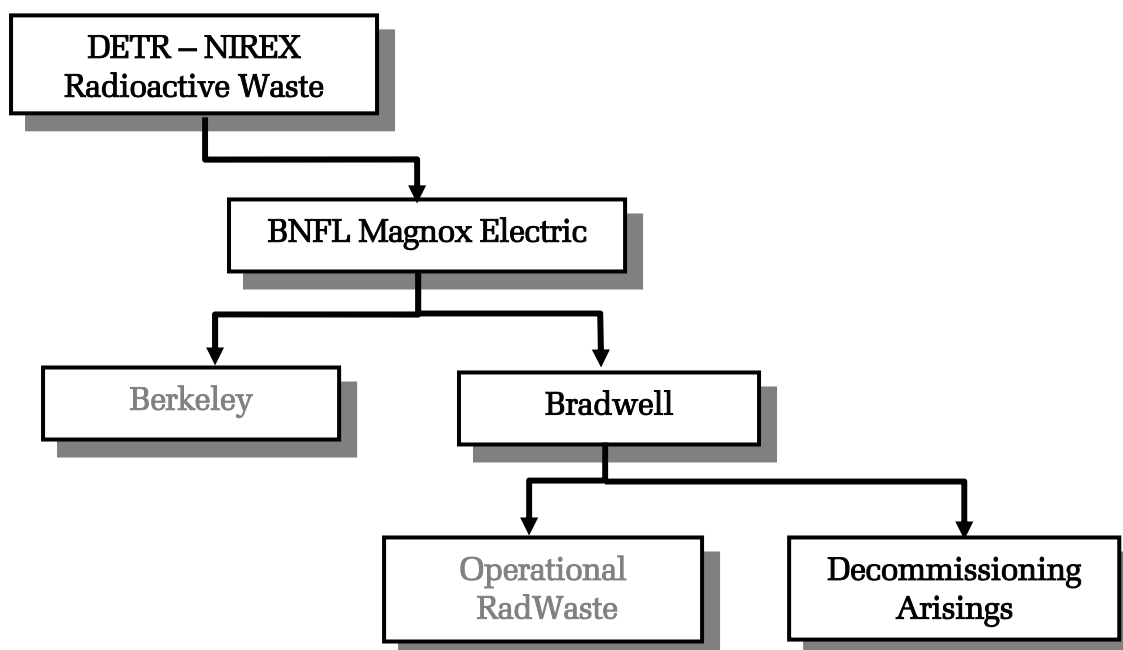
23 DECEMBER 2008

THE UNITED KINGDOM RADIOACTIVE WASTE INVENTORY

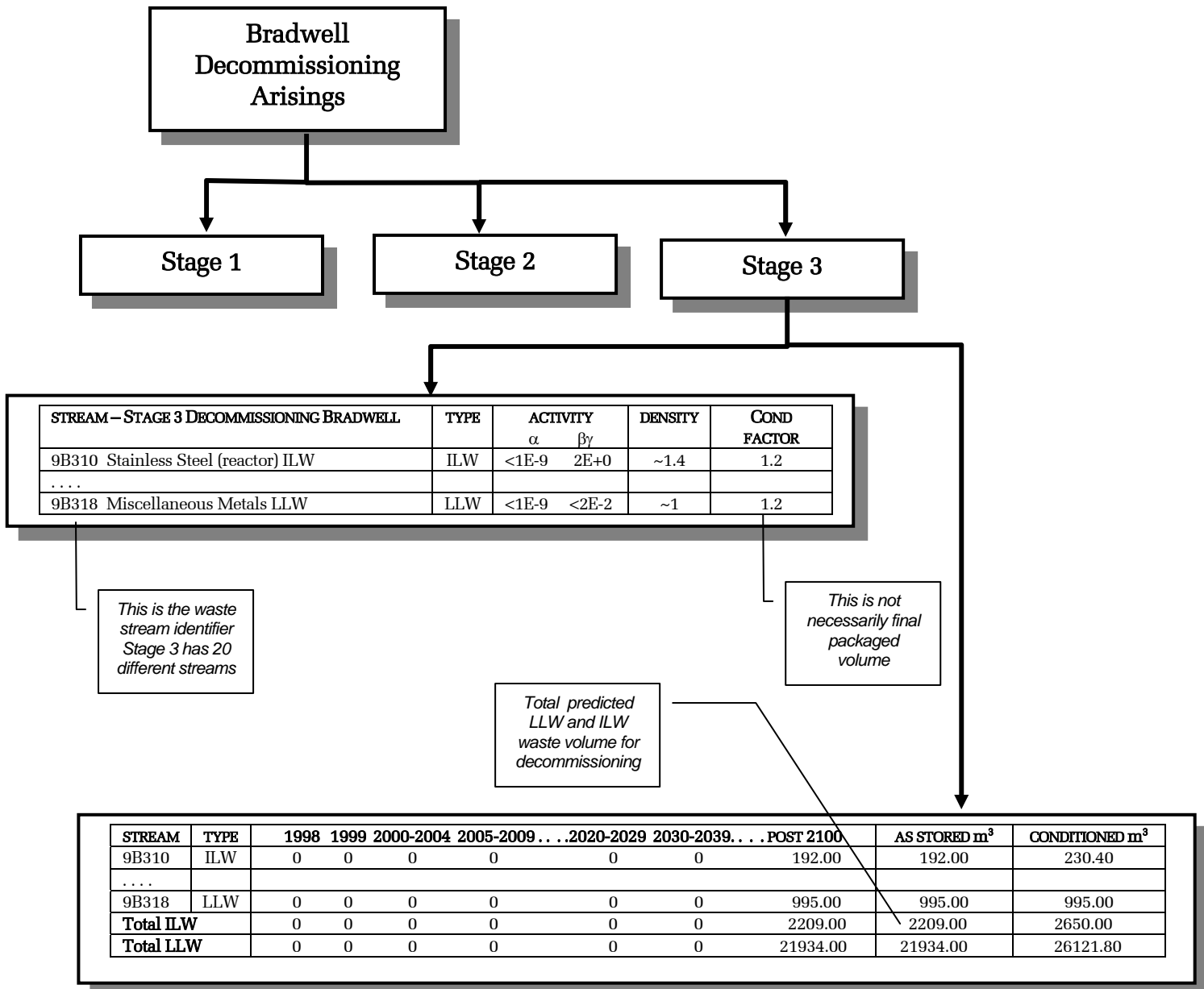
The UK Radioactive Waste Inventory is compiled and published periodically (about every 2 to 3 years) as a joint project between the Department of the Environment, Transport and the Regions (DETR) and the Nuclear Industry radioactive Waste Executive (NIREX). The inventory accounts for all radioactive waste, from the civil nuclear power, fuel processing and research activities, the use of radioactive sources and substances in industry and the wastes arising from military activities.

Volumes of radioactive waste change with time as waste continues to accumulate from ongoing nuclear activities, as existing stocks of radioactive waste are gradually treated and conditioned, and as a result of disposal, both from dumping and export.

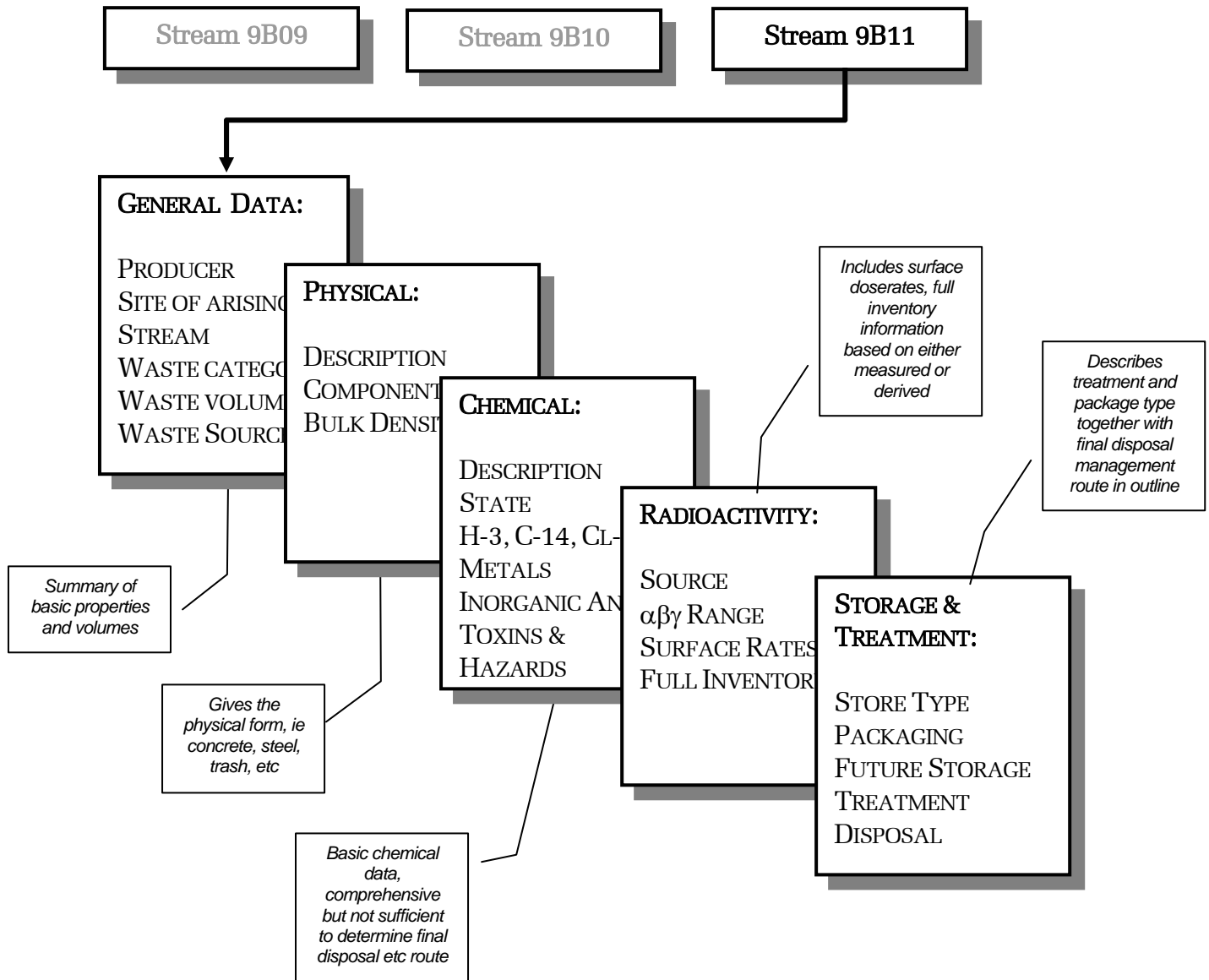
The inventory centres around each producer of radioactive waste and breaks down into the primary activities of that producer. For example there is a section devoted to BNFL Magnox Electric wastes, this is divided into sites, such as Bradwell, Berkeley, etc., and each of these into the activities undertaken on the site, such as *Operational Wastes* and *Decommissioning Arisings*.



The decommissioning arisings are segregated into the 3 stages of decommissioning, each of which is divided into various low- and intermediate-level wastes streams for which the basic properties, including α and $\beta\gamma$ specific activities (Bq/m^3) are given, and both the current stocks and projected arisings volumes (m^3) are listed.



Finally, the radiological, chemical and physical characteristics of each waste stream together with its proposed disposal route are set out as follows:-



In its entirety the complete 1998 inventory comprises approximately 1,500 pages. The sections listing the decommissioning wastes for a single Magnox station such as Bradwell comprises 47 pages, a representative selection of these are attached.