15F LOCA Inventory Curves

15F.1 Introduction

This appendix provides additional detail on the distribution of iodine isotopes for the design basis LOCA analysis found in Subsection 15.6.5. The information is in the form of a series of curves as is explained below.

Curves Explanation

15F-1 Provides the total airborne fraction of iodine in the primary containment as a function of time.

15F-2 Provides the total airborne fraction of iodine in the reactor building as a function of time.

15F-3 Provides the distribution of elemental (including elemental and particulate) and organic iodine in the condenser which originated in the primary containment as a function of time.

15F-4 Provides the distribution of elemental and particulate iodine which originated in the primary containment in the main steamline and drain line piping. Shown is the:

- Fraction of total core inventory on the pipe surfaces as a function of time noted as FRACTION IN PIPES.
- Fraction of total core inventory converted to organic iodine which was originally fixed to the pipes and resuspended as a function of:
  - Time integrated release to the condenser.
  - Time integrated release from condenser.

15F-5 Provides fraction of core inventory released to the environment.

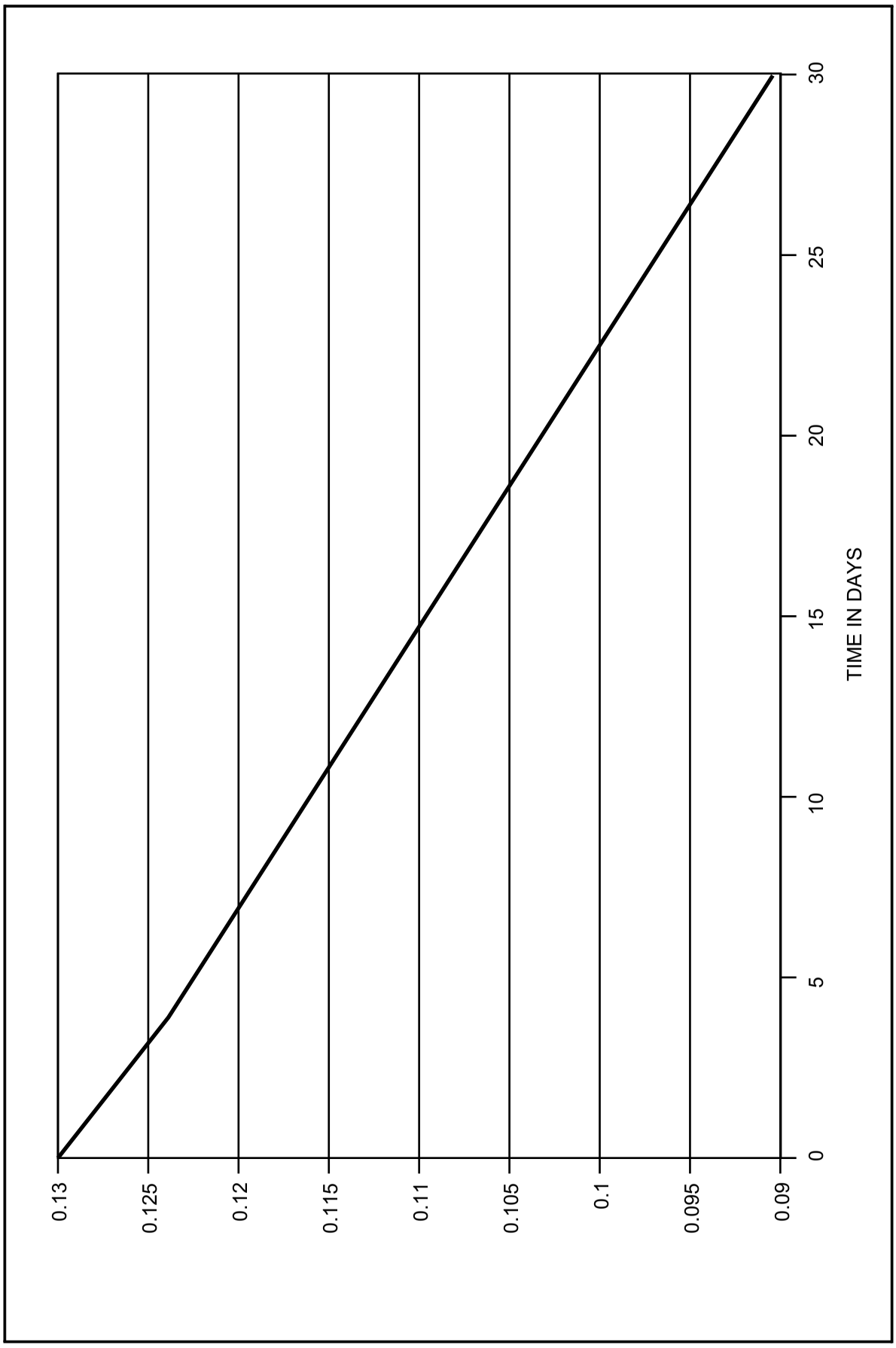

Figure 15F-1 Iodine Airborne Inventory in Primary Containment as a Function of Time

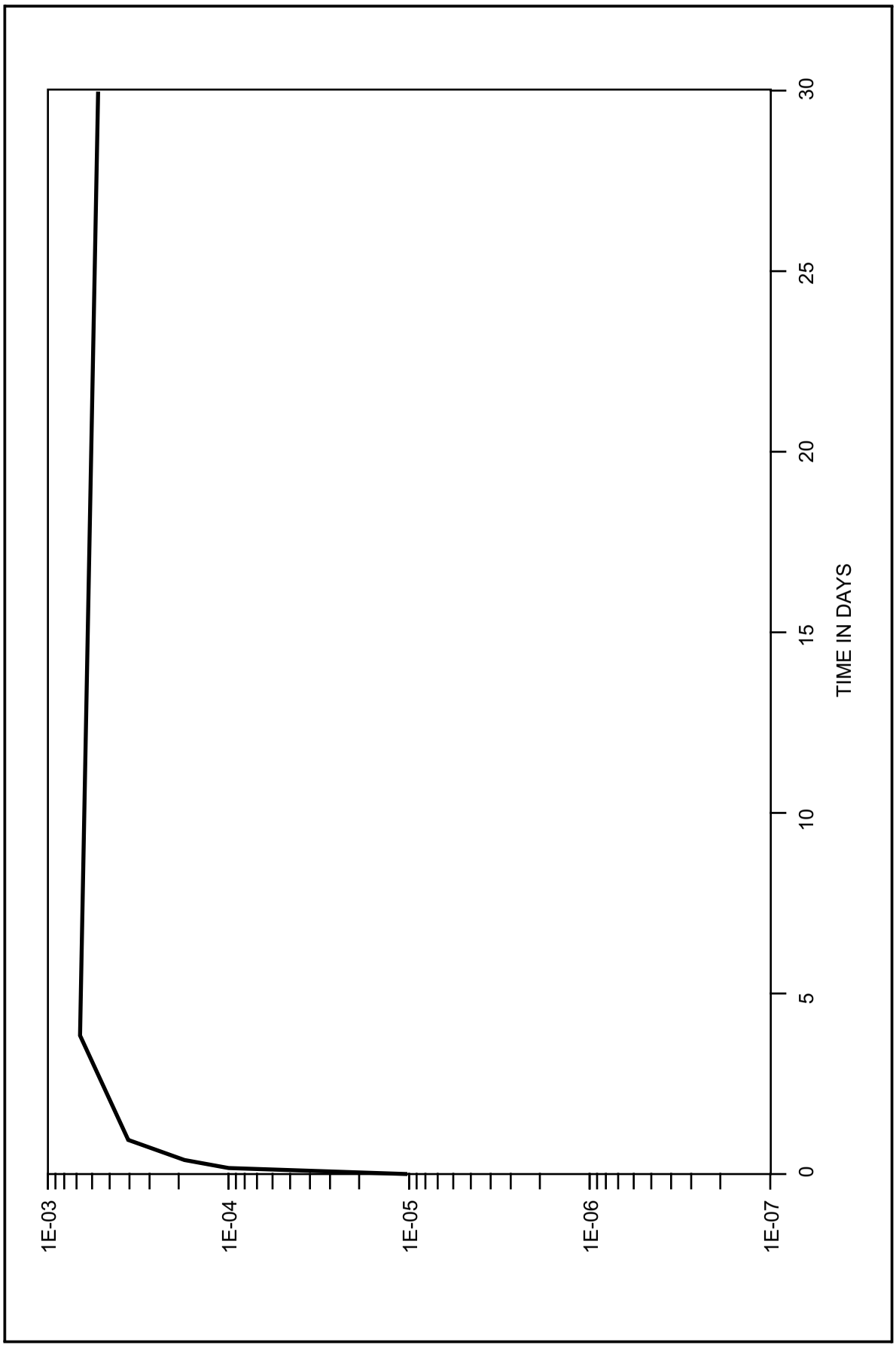

Figure 15F-2 Reactor Building Airborne Inventory as a Function of Time

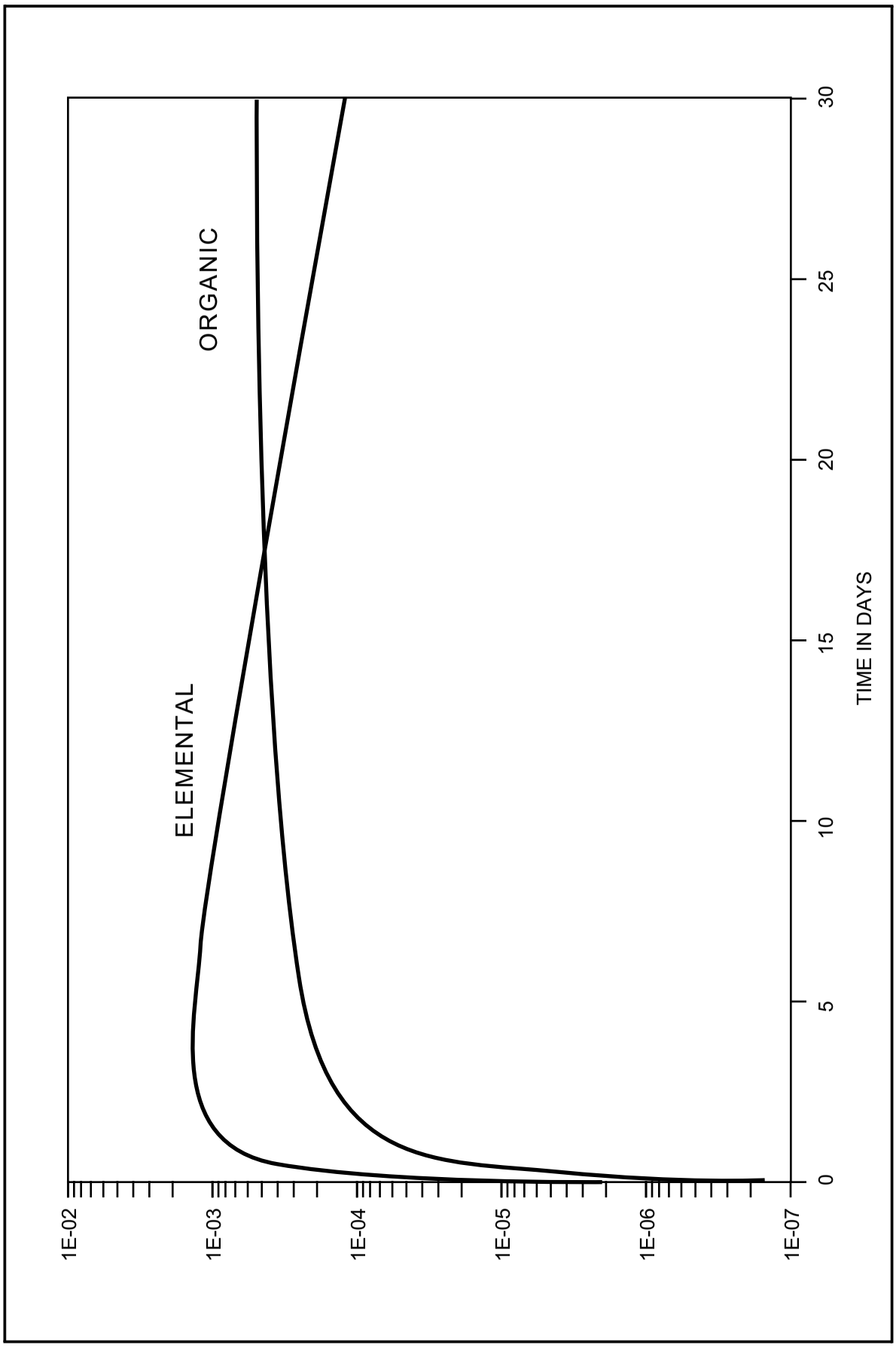

Figure 15F-3 Condenser Inventory from Primary Containment as a Function of Time

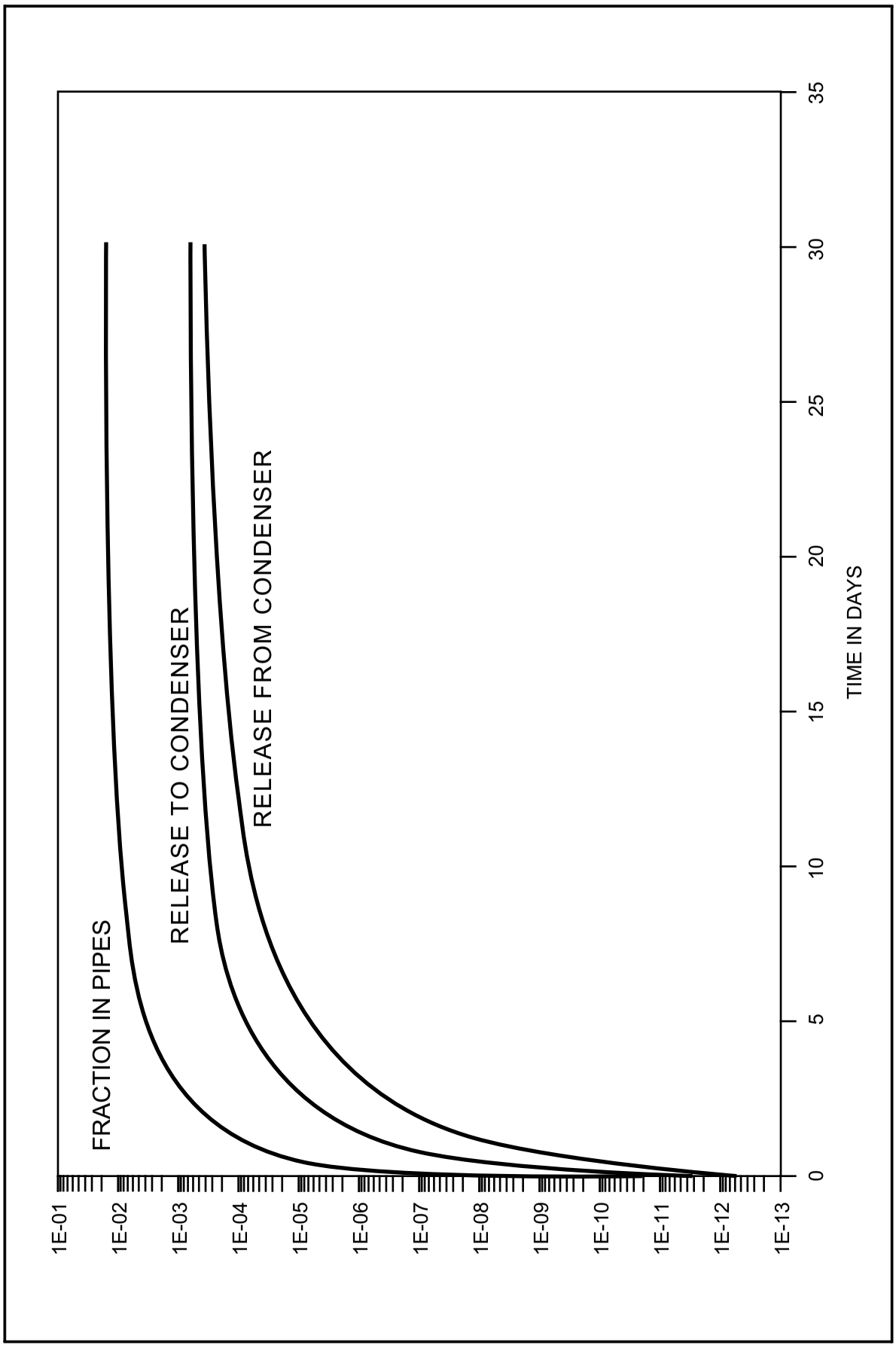

Figure 15F-4 Non-Organic I in Pipes and Condenser as a Function of Time

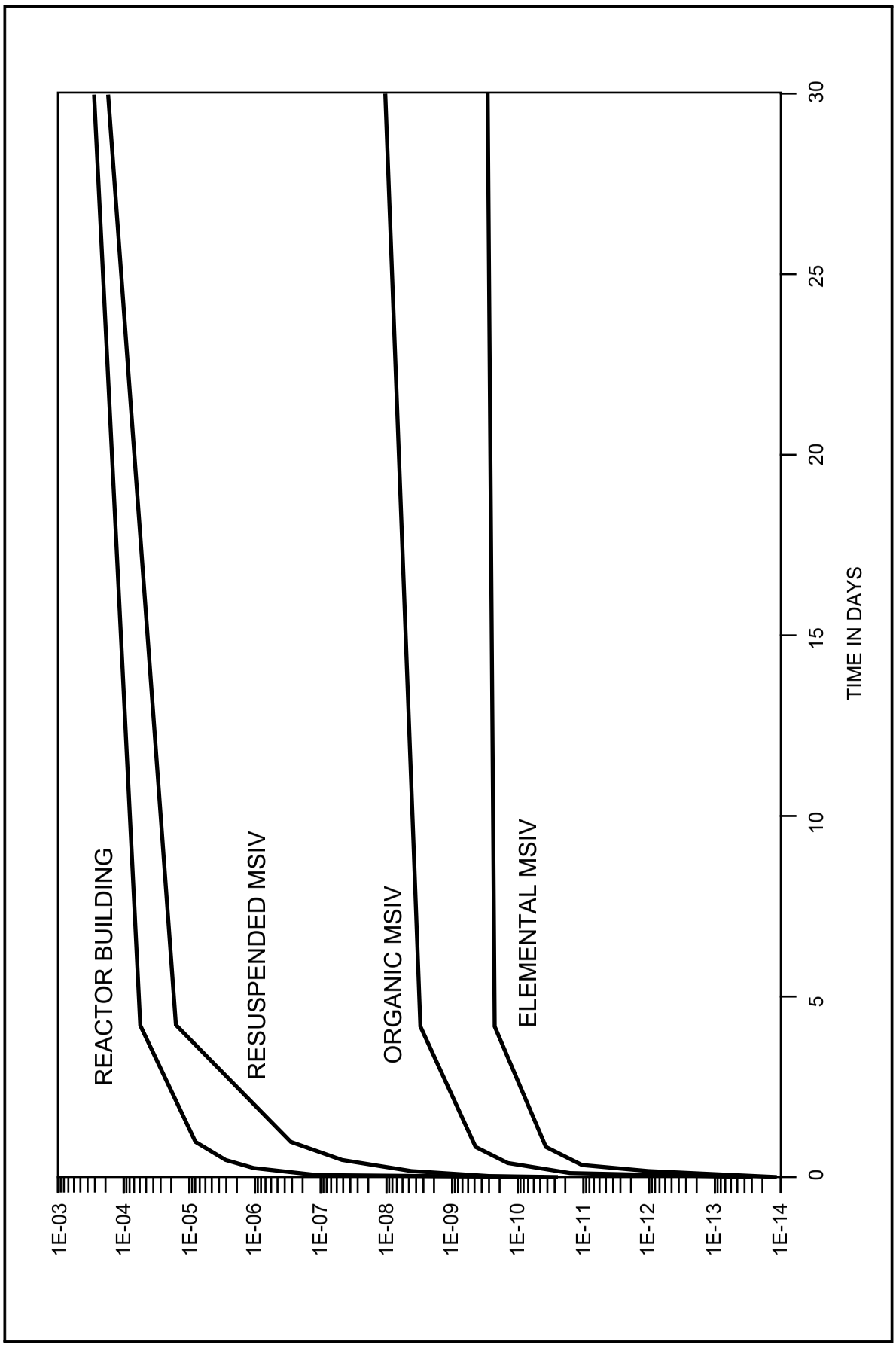

Figure 15F-5 Releases from Plant as a Function of Time