a long time within the nuclear establishment.

First we will look at the safety / record set by reactors themselves.

Across is a small section of a computer print-out of "abnormal occurrences" (AO) for 1973. This page details some of the 39 AOs reported at the Vermont Yankee nuclear plant on the Connecticut River in Vernon, Vermont. This plant has had a particularly bad operating record. During one 19 month period of operations it was shut down 17 times. Its record makes it one of the 10 worst nukes in the country.

Some of the AOs are examples of small component failures. Others, as the last listed seem more ominous. It tells of "an apparent detonation" in the off-gas system which led to "radioactive releases," which were, however, "within allowable limits." Note that the amount of radiation released was not given, just the fact that the releases were "legal."

The detailed listing of AOs from nukes nationwide was getting staggeringly long when the definition of an AO was conveniently changed by the Energy Reorganization Act of 1974. The new definition of AOs, now known as "reportable occurrences," was very strict, limiting the list only to cases where there was proven potential of radioactive release, catastrophic accident, etc. In the first five months of 1973 alone, there were about 850 AOs reported to the AEC from 30 reactors. Under the new definition, only 6 "incidents" were reported in the first six months of 1975!

In the "Summary of Abnormal Occurrences Reported to the AEC During 1973," there was a total of 850 "events" listed. Of these, the AEC graded 55% (461 events) of the total "insignificant,"

The report half of the reported direct or potential safety What it didn't say was the potentially significant or boiling water reactors fare Of the directly significa 77.7% were reported in Gr The 1973 AO roster g indication of what goes reactor. Component failure of the AOs (442 events) sonal error was the stated call (132 events). Other causes we REQUIRED SET POINT OF 1 .5 PSID. AD-13-21. errors, external causes, defer cedures, and "unspecified reas In 1973, the Browns Fern in Alabama led the list in number events reported, with 65. This esting because it was that re first year of operation. Two year it would be the scene of one worst nuclear accidents to har the U.S. (See p. 120.) Some reactor accidents-or accidents—seem almost absurd you realize that "some day these lems may result in a nuclear att which renders several states of Nation uninhabitable." (Senator) Gravel of Alaska.) In March 1971. Gravel read this one into the Con sional Record: From ROE 69-10 [ROE means reactor operating experience an AEC regular report] welean that, during a routine checkati power reactor, abnormal radio activity was observed in the building water distribution. In presence of radioactivity Wa confirmed in the plant drinking fountains. The contamination

was found to have arisen from

between a 3,000-gallon radio active waste tank and the walt

an inappropriate cross-conned

DURING OPERATION, AN APPARENT DETONATION IN CFF-64S SYSTEM FRACTURED A EJECTOR RUPTURE DISC. OFF-64S SYSTEM THEN VENTED TO BLUG. SECURED BLUVENTILATION SYSTEM AND SHUTDOWN REACTOR. RADIDACTIVE GASEGUS RELEASES RE MITHIN IS VALVES. (A0-73-26-1)

AN APPARENT DETONATION IN OFF-GAS SYSTEM FRACTURED URE DISC. RADIDACTIVE RELEASES WERE WITHIN ALCUMBLE VVESTIGATION DID NOT IDENTIFY POSITIVE DETONATION SOID NOT WE SPECIALLY OFFICE AND CONTINOUS AIR BURGEDENTIFIED. NO ELECTRICAL STORMS IN AREA. EXTENSIVE IN DENTIFY SOURCE. ISSUED NEW EMPRESCENCY ORS PRINCEMILE.