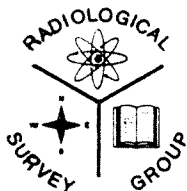




**SURPLUS FACILITIES
MANAGEMENT PROGRAM**

**INTERIM POST REMEDIAL ACTION SURVEY REPORT
FOR
SYSTEMS FOR NUCLEAR AUXILIARY POWER-8 (SNAP-8)
EXPERIMENTAL REACTOR FACILITY (BUILDING 010)
SANTA SUSANA FIELD LABORATORY
ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA**



**OCCUPATIONAL HEALTH AND SAFETY DIVISION
Health Physics Section
ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS**

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SURPLUS FACILITIES
MANAGEMENT PROGRAM

INTERIM POST REMEDIAL ACTION SURVEY REPORT
FOR
SNAP-8 EXPERIMENTAL REACTOR FACILITY
BUILDING 010 SITE
SANTA SUSANA FIELD LABORATORY
ROCKWELL INTERNATIONAL

November 1979
October 1981

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INTERIM RADIOLOGICAL SURVEY REPORT
SNAP-8 EXPERIMENTAL REACTOR FACILITY (BUILDING 010)
SANTA SUSANA FIELD LABORATORY
ROCKWELL INTERNATIONAL

INTRODUCTION

The Argonne National Laboratory (ANL) Radiological Survey Group conducted a series of radiological measurements and analyses at the site of the former System for Nuclear Auxilliary Power-8 (SNAP-8) Experimental Reactor Facility for the purpose of post remedial assessment (certification). The assessment was conducted at the request of the Department of Energy (DOE), Office of Operational Safety (OOS) and in accordance with the programmatic post remedial action responsibilities of the Office of Operational Safety. Radiological measurements were conducted initially during November 1979 and again during October and November 1981.

The SNAP-8 Experimental Reactor Facility site is located in the Santa Susana Mountains at Rockwell International's Santa Susana Field Laboratory (see Fig. 1). The SNAP-8 site, as found in 1979 and again in 1981, consisted of an asphalt-paved parking area (see Fig. 2). All reactor components, equipment, structures, and appurtenances thereto, had been removed and disposed of, with the exception of an unidentified quantity of nonradioactive reinforced concrete, used as backfill, and a previously abandoned sanitary leach field. The septic tank, a part of the sanitary leach field, had been removed when the facility was connected to the central sewer system.

The SNAP-8 facility, also known as Building 010, was built for testing small or space-type reactors. Originally constructed in 1959 for the testing of the 50 kW SNAP-2 Experimental Reactor, the testing of which was completed in 1960, the facility was modified and improved for a similar testing program that involved the higher power level SNAP-8 Experimental Reactor. The program involving the SNAP-8 Experimental Reactor was completed in 1965.

Building 010 was a rigid steel frame structure with corrugated metal siding and roofing. The foundation and floors were constructed of steel-reinforced concrete. Subsurface structures included three steel-reinforced concrete vaults,

