



Battelle

Putting Technology To Work

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July 16, 1990

Mr. Charles J. Haughey
Chief, Advanced Fuel and Spent Fuel Licensing Branch
Division of Fuel Cycle Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Haughey:

This report summarizes factors pertinent to the radiological status of the retired Battelle Research Reactor Facility for the calendar year 1989 as required by Amendment Number 2 of Battelle's NRC License SNM-7.

Facility Location

The facility is located in Building JN-3, Battelle's Columbus Division, (BCD), West Jefferson, North Site, about one-quarter mile east of State Route 142.

Retired Facility Site Representative (RFSR)

The Radioactive Materials Subcommittee (RSC-1) of the BCD Radiological Safety Committee maintains purview of the facility and audits the radiological status.

Facility Status

Proposed uses of the facility must be approved by the RFSR and are subject to overview of RSC-1.

Dr. Jeff Means remained chairperson of the RSC-1 subcommittee during 1989.

The general physical arrangements within the building remain the same as reported for the calendar year 1988.

Security and Surveillance

The facility remains within the confines of the fence and protected Nuclear Sciences area. Twenty-four-hours-a-day surveillance and area access control is maintained by armed security inspectors. Unescorted area access is limited to persons approved for access by security and site management. All others must be escorted by a staff member on the access list.

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Environmental Survey

On-site and off-site environmental monitoring is continued for the Nuclear Sciences area according to DOE and NRC requirements. A report of the data from the monitoring program is developed annually. A copy of the report, which is in the process of being reviewed by DOE Chicago Office, will be forwarded as soon as it is approved for distribution. The raw data compiled for the report does not indicate any unusual conditions which may be attributable to this facility.

Retired Facility Surveys

Surveys are performed monthly as part of our DOE surveillance and maintenance program. These include smears, at approximately eighty (80) locations, evaluated for alpha and beta activity, and exposure dose rates at the ten highest locations. All smear and exposure data over the year have been within acceptable limits and no abnormal conditions were noted.

Water Monitor

All water collected in the interior sump from the old hot drain system is pumped to an outside sump through a monitoring chamber. The pump is controlled by the monitor. If the set point is exceeded, the monitor alarms and interrupts the electric power to the pump. The monitor employs a downscale failure alarm as well. Instrument laboratory personnel perform monitor servicing including weekly response checks and calibration with Cs-137 solutions at approximately annual intervals.

Facility Uses

Current uses are:

Basement Area:

- (1) Old pump room, northeast basement.
 - Drain sump, water monitor, and sump pump.
 - Storage of project archive samples packaged in cans.
- (2) North basement.
 - Stored 55-gallon drum packages of Pu bearing waste.
- (3) West basement.
 - Storage of three, crated, used/cleaned Pu glove boxes. These glove boxes remain stored with shipment being delayed by the purchaser.

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- (4) South basement.
 - Used as a emergency assembly area
- (5) Southeast basement:
 - Storage of small equipment items on shelves.
 - Furnace room.

Ground Floor:

- (1) West end, old shop area - source storage area.
- (2) G.E. pool area, no specific use.
- (3) The ground floor rooms are used for miscellaneous storage and equipment on standby for radiological emergency use.

Second Floor:

- (1) Northwest laboratory room - no operations.
- (2) North side open bay storage of empty 55-gallon, new, drum shipping containers.
- (3) Open bay east, fabrication of wooden crates or bins when needed for waste shipment.
- (4) Open bay south, storage and crate fabrication.
- (5) Southwest, old control room, - converted to an exercise area. There is a Battelle requirement for security and plant protection personnel use, and it is also open for use by North Site staff.
- (6) Main pool area - no use currently.

Occurrences

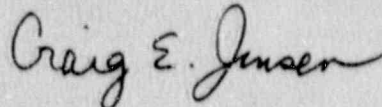
There were no reportable occurrences during 1989 associated with operations conducted in the building.

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If you have questions or require additional information regarding this facility, please contact the Retired Facility Site Representative, Mr. Craig E. Jensen, (614) 424-5911 or the NRC Licensing Coordinator and North Site Manager, Mr. Harley L. Toy, (614) 424-5228.

Sincerely,

A handwritten signature in cursive script that reads "Craig E. Jensen".

Craig E. Jensen
Radiological Safety Officer
Retired Facility Site Representative

CEJ:cj

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