U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 040-08724/90001

License No. SUB-1357

Licensee: Chemetron Corporation

c/o Sunbeam/Oster Company, Inc.

Two Oliver Plaza

Pittsburgh, PA 15222

Facility: Bert Avenue Landfill

Cleveland, Ohio

Inspection: October 3, 1990, and follow-up on October 19, 1990

Radiation Specialist

Noveman 1990

Approved By:

Project Manager Fuel Facilities and Contaminated Sites 11-16-90 Date

Inspection Summary

This was a special inspection performed on October 3 and 19, 1990 (Report

No. 040-08724/90001)

Areas Inspected: The inspection was performed to evaluate the physical security at the Bert Avenue Landfill. The inspection included a walk around the fenced area, taking photographs of the fence, and interviews with a

security guard and the site supervisor.

Results: One apparent violation was found: 10 CFR 20.207(a) licensed material in an unrestricted area was not secured against unauthorized removal from the place of storage. In addition to the above violation, the inspectors recommended that additional radiation warning signs be posted.

DETAILS

Persons Contacted

Paul Terp, Site Supervisor (Nuclear Energy Services) Barry Koh, Technical Consultant Officer George Koczwara, Security Guard Tim Walker, Ohio State Department of Health Kevin Driesbach, Ohio State Department of Health Todd Brady, Cuyahoga County Board of Health

2. Purpose of Inspection

This special inspection was performed to evaluate the physical security at the Bert Avenue Landfill (see sketch).

The inspection included walking around the outside of the fenced area, and interviews with a security guard and the site supervisor.

Inspection Findings

The Bert Avenue Landfill was surrounded by a 6-foot fence and in some locations it was topped with strands of barbed wire. The 27th Street entrance to the site had two large chain link gates secured with a chain and lock.

Just inside the gate was a parking area and house trailers that served as offices. There was an additional 6 foot chain link fence that separated the area contaminated with depleted uranium. This fence was topped with strands of barbed wire and had a chain link gate.

The inspectors walked around the outside of the fence surrounding the area that is contaminated with depleted uranium. Along the west boundary, there were at least two areas where the barbed wire and fencing had been bent over at the top, which would make it easier to climb over the fence. Behind a neighbor's garage there were metal folding steps and a two step wooden platform, which would also make it easier to climb over the fence. At the west boundary next to the playground, there were holes in the fence and debris piled against the fence which also reduced the effectiveness of the barrier (Photos 1, 2, and 3). There was also a shelter built from debris that looked like a playhouse. The playhouse was not in the restricted area but was near the fence (Photos 4 and 5).

A new 6-foot chain link fence had been erected at the top of a slope just to the north of the landfill. Along the north boundary there was an area where the soil had eroded, leaving a hole large enough so that a person could easily squeeze under the fence (Photo 6). The new chain link fence is connected to a 6-foot welded wire fence. There was a gap under the fence where the chain link and welded wire fence were joined (Photo 7).

The east side of the site had a 6-foot welded wire fence. The fence was supported with metal posts that are sunk in the gravel. In certain locations this fence could be lifted up allowing access under it. There was also an area along the east boundary where the soil had eroded leaving a hole where a person could squeeze under the fence (see Photo 9). The top of the fencing was bent in on the gate along the east boundary (Photo 8).

The welded wire fence met a new chain link fence at the southeast corner. At this corner there was a gap where a person could easily squeeze between the fence posts (Photo 10).

The new fencing along the east boundary of the site is attached to an old fence. At this junction, the new fence was not attached to the top of the old fence and it could be bent down about one and a half feet. The gate at the end of 29th Street was secured with a chain but had a gap large enough for a child to squeeze though.

The gate at the end of Bert Avenue and areas of the fence next to that gate were overgrown with vegetation. The inspectors were unable to perform a detailed inspection of this area because of the vegetation growing on the fence. The effectiveness of the fence is decreased because the vegetation makes it easier to climb over.

Chemetron would be unable to maintain control of access to licensed materials at the site because there were gaps in the fence that would allow an individual to enter the landfill. Therefore, this area constitutes an unrestricted area.

Failure to secure licensed material stored in an unrestricted area against unauthorized removal from the place of storage is an apparent violation of 10 CFR 20.207(a).

Curing the third week of September, off-duty policemen were hired as added security and they have been patrolling the fenced boundary in their vehicles and walking around the outside of the fence. Watchman's key clocks were mounted on the welded wire fence on the east side and on the inner chain link fence on the south side. The off duty policemen patrol the area from 9:00 a.m. to 4:00 p.m. Monday through Friday. Private security guards patrol the area from 4:00 p.m. to 7:00 a.m. Nuclear Energy Services personnel are at the site at 7:00 a.m. Off-duty police and private security guards watch the site on the weekend. On the day of the inspection, a police officer was stationed at the front gate permitting entry and exit from the area.

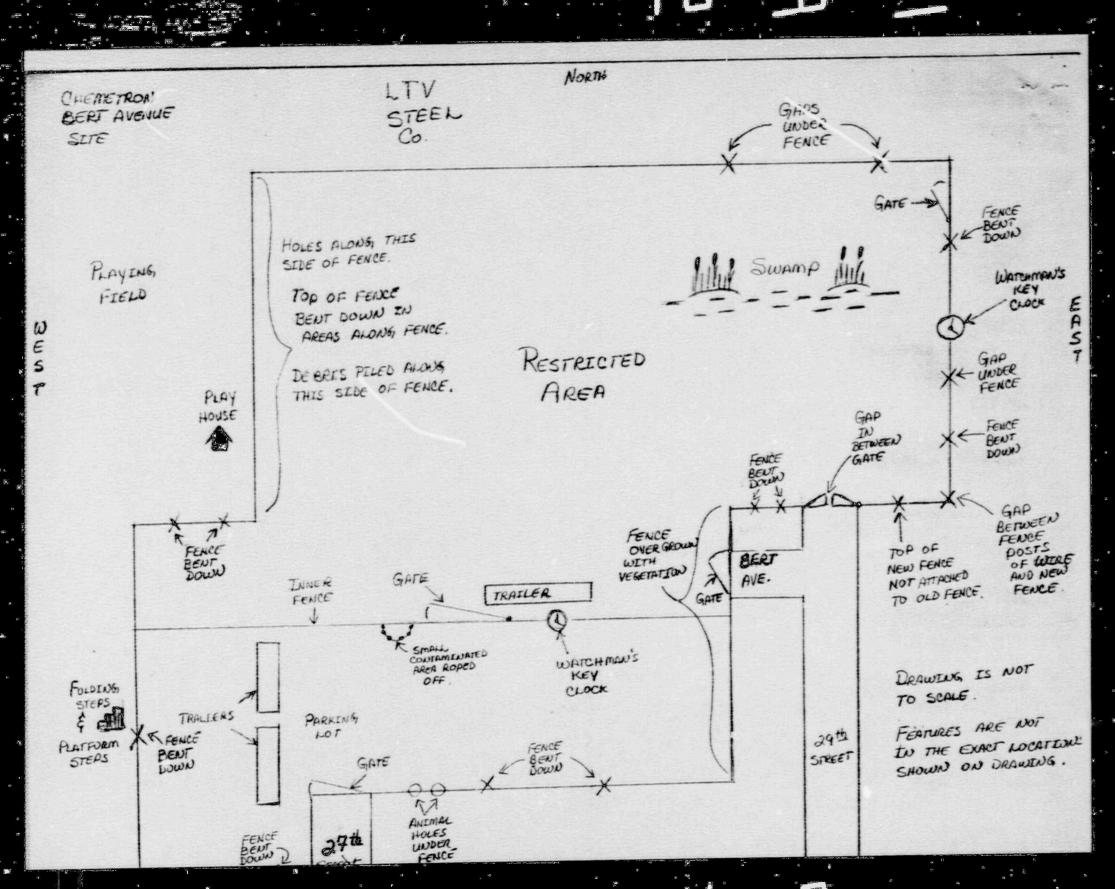
The fence was posted with radiation warning signs, but the inspector recommended that additional signs be posted. The site supervisor stated that there had been more radiation signs on the fence, but some had been stolen. The site supervisor stated that additional radiation warning signs had been ordered and to prevent theft they planned to mount the

radiation warning signs inside the fence. During a telephone discussion on October 19, 1990, Mr. Barry Koh (technical consultant) stated that additional radiation warning signs had been posted.

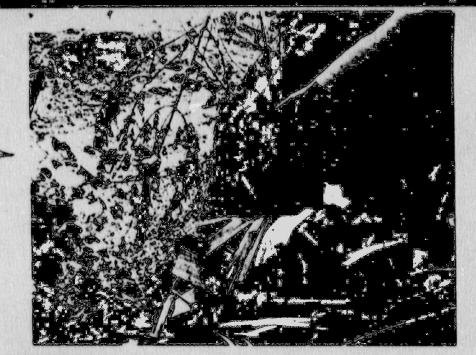
One apparent violation was found.

Attachments:

- Sketch of Bert Avenue Landfill
- 1. Photographs 1 through 10

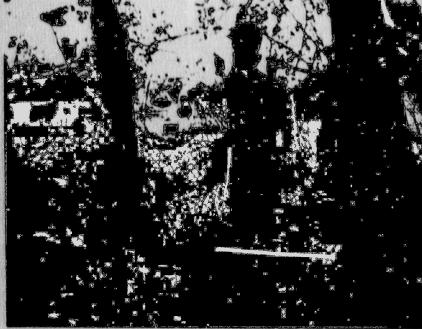


DEBRIS AGAINST FENCE



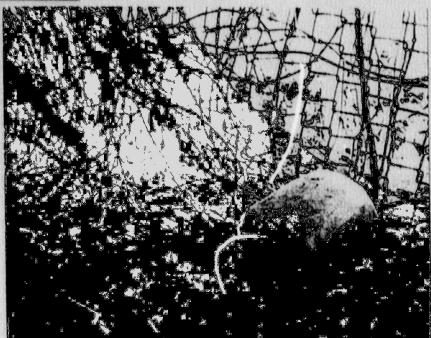
2

TOP OF FENCE BENT DOWN



3

HOLE IN FENCE



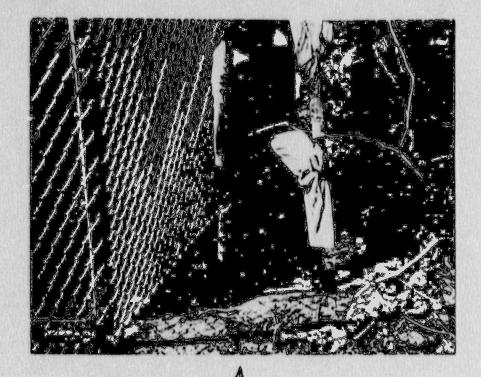


PLAYHOUSE

5

TOP OF FENCE BENT DOWN





6

HOLES UNDER FENCE





9

HOLE UNDER FENCE





10

- GAP BETWEEN FENCE POSTS