"The leaks are undesirable, and we would like to get rid of them, but they are no safety hazard. The pits are not going to collapse, and they are not going to fall apart."

-FPL's A. D. Schmidt



FPL, U.S. Agency Aware of Turkey Point Leaks

FROM-PAGE I

to wait until all of the fuel can be unloaded and the pits drained something that may not be possible for several years.

In the meantime, FPL actually plans to expand the storage capacity of the leaking pits — even though it may not be able to repair the leaks themselves.

ORDINARILY, the used fuel would be stored in the pits for only a few months before being trucked away to one of the nation's three commercial reprocessing facilities.

"In terms of the imminent threat to the public, the risk of these leaks is rather small. But the long-term risks are much greater. These leaks are not just a potential problem, they are happening right now."

Union of Concerned Scientists

Robert Pollard,

But the reprocessing plant at West Valley, N.Y., has been closed since 1972 for safety modifications and won't be reopened until at least

A second plant, near Morris, Ill., may never open at all. Its builders say the new \$64-million plant simply does not work.

The country's third reprocessing plant, at Barnwell, S.C., is em-broiled in a licensing dispute and isn't expected to open until 1977 or

As a result, FPL - like most of the nation's other nuclear power plant operators — is being forced to store its spent fuel at the plant where it is used.

BUT THE storage pits at Turkey point are nearing capacity, and the company is urgently seeking federal approval for a \$4-million program to triple the amount of fuel the leaking pits will hold. Without adequate storage, the plant could be forced to close.

er, the fuel already stored there will have to remain in place, and the company is uncertain it will be able to fix the leaks until it can be re-

Company officials say they aren't worried about the continued leak-

"The leaks are undesirable, and we would like to get rid of them, but they are no safety hazard," says A.D. Schmidt, FPL's vice pres-

ident for power resources. "The pits are not going to collapse, and they are not going to

fall apart." · But because the rate of leakage appears to be increasing, Nuclear Regulatory Commission officials are more concerned about the prob-

"LEAKS DO not heal themselves," says Norman C. Moseley, director of inspection and enforcement for the NRC's Southeast re-

"Turkey Point has not yet received permission to store additional fuel at its plant, and it is possible that we might require them to repair the leaks before they get that approval," he said.

"Repair efforts may be hampered by the storage of spent fuel, but the company could be required to unload the fuel to make any neccessary repairs.

"In that case, they would have to ship the spent fuel to some other place - perhaps to their new St. Lucie power plant, or to some other

BZATTY, Nev. — (UPI) — State and federal officials have told a

town meeting of potential health

hazards from items stolen from a

radiactive waste disposal facility

They said that there would be no

questions asked of those who

Helped them locate such materials,

which they said were dangerous

even if buried in the desert area

The dump site has been operated

by Nuclear Engineering Co., Louisville, Ky., whose license was sus-

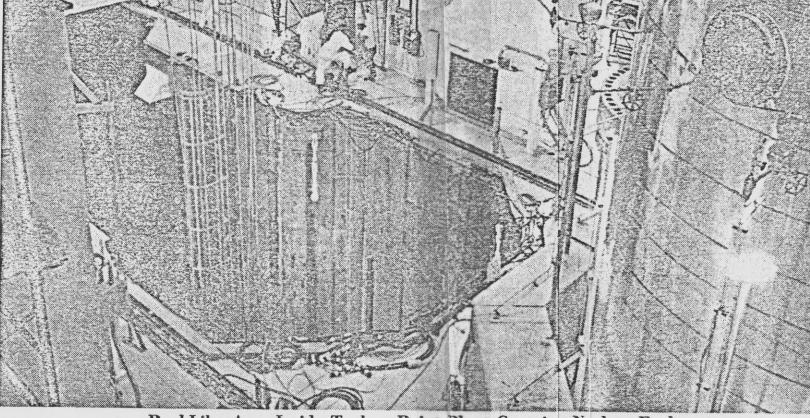
FEDERAL OFFICIALS said in-

spectors were also being sent to

dump 11 miles south of town.

around Beatty.

pended.



Pool-Like Area Inside Turkey Point Plant Contains Nuclear Fuel ... spent meterial goes into separate pits which are covered with water

reactor where there is spare stor-

By themselves, the leaks do not yet pose any serious safety hazard.

BUT THEY DO exemplify a number of general problems in the nation's nuclear industry - including defects in plant construction, the failure to correct known defects, and a range of problems posed by the increasing storage of spent fuel at scattered locations around the

FPL, which has made a heavy commitment to construction of new nuclear power plants, is especially sensitive to the implications.

"Nuclear power is absolutely essential to the energy future of this country," said one company spokesman. "I certainly don't believe that this story is going to help the cause of nuclear power one bit.'

There is agreement on that point from Robert D. Pollard, a former licensing project manager with the NRC, who resigned his post in January in protest over "unresolved ms" in nuclear plant construction.

"IN TERMS of the imminent threat to the public, the risk of these leaks is rather small," explained Pollard, who now works for the Union of Concerned Scientists, a group of Boston-based scientists critical of the nuclear industry.

"But the long-term risks are much greater," he added. "These leaks are not just a potential problem, they are happening right now.

The company is caught in the equivalent of a Catch 22. They didn't fix the leaks when they had the chance, and now that the leaks are apparently getting worse, they have so much spent fuel on hand that they can't fix them.

"If it weren't such a serious matter, it would border on the absurd." The leaks, however, are not the only problems that FPL has been having with the storage of spent

BECAUSE THE fuel is hot, the water in the pits must be circulated to prevent the buildup of heat and the possibility that the big pools of water could eventually begin boiling.

Each pit has only a single pump to circulate the water. One of them has failed twice in the last year. The other has failed three times.

far, the company either has been able to repair it, or bring in emergency equipment before the heat in-

Stolen Nuclear Waste Perils

Town, Federal Officials Say

creased greatly - a process that

But the reliability of the pumps will become increasingly important FPL increases the amount of fuel it holds in the pits. More fuel will mean more heat.

"THAT WILL decrease the amount of time the company will have to deploy its emergency equipment," says Moseley. "If they triple the amount of fuel stored there, it will give them roughly one-third of the time they now have." As a precaution, FPL plans to install permanent back-up pumps on the fuel pits a decision the company made shortly after a mishap with one of its temporary emergency pumps resulted in the spill of more than 7,000 gallons of radioactive water.

The sequence of events began on April 12, 1975. The pump on one of the spent fuel pits failed — for what was to be the first of three failures in the next five weeks. An emergency pump was moved in and hooked up, but it was left tempo-rarily unattended and during that time, pulled a hose coupling on the pump loose.

ticed, the pump has spewed 7,400 gallons of radioactive water out on the floor of the building. The

company recovered about 60 per cent of it. The rest of it — rearly 3,000 gallons - ran out a doorway and soaked into the ground outside. "That is a potentially very strious accident," says Dr. Henry Kendail, a nuclear physicist at the Massachusets Institute of Technology and member of the UCS.

"W thout the pumps for any ex-tended period of time, or winout adequate cooling water, the spent fuel would begin to overheat," Ken-

"In time, the fuel rods would rup-ture and at that point, if the fuel pits still leaked, anything the came out the cracks would probably glow in the dark."

AFTER THE April spill, FPL took a number of precautions to assure that such an accident would not be repeated. In the four subsequent failures of its fuel pit pumps, in fact, there were no reported spills

There was, however, a spill of radioactive waste at the plant in October that was the result, mot of an equipment failure, but of human

from the leaking pits is treated to remove radioactive particles. The radioactive material is stored in a

tank, which must be periodically cleaned.

In October, plant maintenance men cleaned out the tank and stored its radioactive mixture of sludge and water in a number of 55-gallon drums.

ON OCT. 21, after the sludge had settled in the drums, the workmen were told to pump the liquid into another holding area through one of the drains in the floor of the

Twenty of the drums were emptied before the men discovered that they had been emptied into the wrong drain. Instead of going into a holding area, the liquid simply had run into a storm drain and soaked into the ground outside.

"The inadvertent use of the wrong floor drain resulted in an unplanned release of about 880 gallons of radioactive liquid to the underground outside the plant's radia-tion-controlled boundary," Schmidt told federas authorities in his report on the mishap.

The NRC's assessment of the incident was more succinct.

"It was a goof," says Moseley FPL said that the release of radiation, cobalt primarily, probably posed no threat to the health and safety of the public.

THE AMOUNT of radioactive cobalt released, however, was approximately 15 times the amount released from the plant in all of the first six months of 1975.

To prevent a repeat of the mishap, FPL decided to label the drains in the floor of the plant, and it ordered workers to "request guidance from knowledgeable personnel whenever any uncertainty arises over the handling of radioactive

Schmidt says the employes responsible for the accident were 'disciplined," but not fired. And he says that in spite of the

"The company is caught in the equivalent of a Catch 22. They didn't fix the leaks when they had the chance, and now that the leaks are apparently getting worse, they have so much fuel on hand that they can't fix them. If it weren't such a serious matter, it would border on the absurd."

-Robert Pollard, Union of Concerned Scientists

growing list of problems associated with the storage of spent fuel at Turkey Point, there is no cause for public concern.

"THERE IS really no considerable hazard in what we have there, "ne says. I don't like leaking fuel pits, and I would like to get rid of the fuel, but those things don't represent a real hazard.

Kendall says the outlook is less

"Some of these things could be very serious," he says. "There are problems with a number of systems that are interrelated.

"It is a failure of the regulatory process that the leaks were actually detected and not repaired, and because it is now apparent that the integrity of the concrete is important, it also represents either a failure in the design or in the construction of the plant.

"And all of those problems appear to be complicated by the fact that the spent fuel can't be shipped to the facilities that were intended

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dials, clocks and other items painted with radium were especially important to recover as were the large buckets designed to transport radi-

The meeting was attended by about a fourth of the town's 600 population. THE GOVERNMENT meanwhile

assigned more men and planes to track down the missing radioactive material, which may have reached as far as Las Vegas.

oactive tools and equipment.

know the whereabouts of any of

He emphasized that compasses,

the missing items.

Trounday said that "hot" items found so far have only low-level

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