File No P10.2.1
Incident No: PAL-82-06-AD71

NPDES NOTIFICATION
Apparent Difference From Daily AVerage/Maximum Limitation
July 7, 1982

Plant: Palisades — Permit No: MI 0001457

Outfall Description: Turbine Sump Oil Separator Wastes (OOG) — Outfall No: 800218

Parameter: Oil and Grease - Freon — Parameter No: 00556

1. Date of Incident: 6/28/82

2. Identification of specific effluent limitation or monitoring requirement affected:

   Daily maximum limit of 20 mg/l oil and grease.

3. Description of Incident:

   A routine sample collected on 6/28/82 indicated 37.7 mg/liter oil and grease. Samples collected 6/29 and 6/30 measured 23.1 and 20.8, respectively. The oil appeared to be turbine lube oil.

4. Apparent Cause:

   Malfunction of oil treatment skid and associated equipment, possible clogging of oil removal filters.

5. If not immediately corrected, the anticipated time the condition is expected to continue:

   NA

6. Corrective Action - The following corrective action was taken or will be taken to reduce, eliminate and prevent recurrence:

   Oil removal filters changed immediately upon receipt of the 6/28/82 sample results (7/1/82). Additional repairs scheduled for oil removal equipment including filter Δ pressure indicators for showing filter clogging. Flow surges through the system caused by automatic pump control failures may have contributed to the high sample results on 6/28/82. The pump controls were repaired 6/28/82. Relief valve RV5220 removed and repaired 6/30/82.

7. Additional Comments:

   T-41 surface does not indicate oil film. Daily observation of mixing basin outfall to Lake Michigan did not show any oil.

8. Signed: Roger L Zimmerman RLZ

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES

REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSSES

Pursuant to the provisions of Act 245 of the Public Acts of Michigan 1929 as amended, regulations have been issued which require that all owners, managers or operators of vessels, oil storage or on land facilities shall notify the Water Resources Commission or his authorized representative of oil, salt and polluting material losses. This notification shall be made promptly by telephone or telegraph, giving briefly the particulars, and by mail, giving a detailed account of events and conditions.

Date	Company Name
June 18, 1982	Consumers Power Company

Location of Loss (Be Specific)
At the Palisades Nuclear Power Plant at the acid feed piping to the "B" Cooling Tower.

Material Lost	Amount	Name of surface water involved
93% H_2SO_4	500 gallons	none

Date Loss was Discovered	Time of Discovery
June 14, 1982	1720 hours

Name of Department of Natural Resources Representative Contacted
Roger Przybysz

Telephoned or Telegraphed by Whom	Time
B J Embrey, Plant Chemical Engineer	1700, 6/15/82

Cause of Loss (Include Type of Equipment and Other Details)
The corrosion of the metal flange bolts at one of the joints between the sulfuric acid tank and the cooling tower was the cause of the spill. Although a spill catch tank is provided, the remote alarm annunciator bulbs were burned out which delayed detection of the spill.

Nature of Loss (Include Complete Description of Damage)
All of the loss occurred in the concrete acid trench and surrounding area when the trench overflowed. The loss was estimated at 500 gallons which leaked into the sandy soil of that area.

Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.)
The acid trench was flushed and pumped into the cooling towers. On June 15, 1982 the affected ground was covered with approximately one ton of lime to an area 10 feet beyond the periphery of the spill and soaked with water to speed neutralization. Ground sampling was performed to confirm results. The soil was sampled to a depth of 5 feet. The pH of

Company Name	By (Signature)
Consumers Power Company, Palisades Nuclear Plant	WPMullins

Return this form to:

Environmental Department
Parnall Road
Jackson, Michian

24 hr. Emergency Notification Number
(800) 292-4706

R4618
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Additional Comments (contd)

the soil/lime/H_2SO_4 mixture was as follows: 0"-12", pH = 11-12 and 12"-5', pH = 8-9. On July 2, 1982 the lime remaining on top of the soil after soaking (1"-2") was compacted into the soil. After the compaction the spill area was covered with 6" of topsoil. The repair of the alarm and the flange was made to prevent recurrence.