



**Consumers
Power
Company**

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

PRIORITY ROUTING

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December 2, 1985

James G Keppler, Administrator
Region III
US Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT -
COPIES OF NON-RADIOLOGICAL NPDES PERMIT VIOLATION REPORTS

Section 3.2 of Appendix B, Environmental Protection Plan (Non-Radiological), to Provisional Operating License No DPR-20, entitled, "Reporting Related to NPDES Permits and State Certifications" states that copies of reports to the State of Michigan indicating violations of NPDES permits are to be sent to the NRC. Attached to this letter are copies of seven (7) NPDES Notifications covering the six (6) month period from May 1985 through October 1985. Also attached are copies of eight (8) Reports of Oil, Salt or Polluting Material Losses that occurred during the same reporting period.

Brian D. Johnson

Brian D Johnson
Staff Licensing Engineer

CC Director, Office of Nuclear Reactor Regulation
Director, Office of Inspection & Enforcement
NRC Resident Inspector - Palisades

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PDR ADOCK 05000255
S PDR

OC1285-0001-NL02

DEC 4 1985

ATTACHMENT

CONSUMERS POWER COMPANY
PALISADES PLANT
DOCKET 50-255

Copies of Non-Radiological NPDES
Permit Violation Reports and
Reports of Oil, Salt or Polluting
Material Losses

December 2, 1985



**Consumers
Power
Company**

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NOV 7 1985

NUCLEAR LICENSING

COPY

November 6, 1985

Mr Fred Morley
District Supervisor, SWQD
Plainwell District Office Building
621 North Tenth Street
PO Box 355
Plainwell, MI 49080

FILE NO: P10.2.1

UFI NO: 950/72*40*05/3 Years

INCIDENT NO: PAL-85-10-NC115

This is in regard to NPDES Permit No MI 0001457 for the Company's Palisades Plant. In accordance with Part II, A4, the attached "NPDES Notification," Incident No PAL-85-10-NC115, is submitted as a report of an apparent difference from the daily maximum effluent limitations for this facility.

If you have any questions regarding the attached report, please contact this office.

R F Green
Staff Environmental Planner

CC USEPA, Enforcement Division, Region V
BCC RBDeWitt, P-26-117
KFBieszke, T-242A
JFFirlit, Palisades
BDJohnson, P-24-606
SFPierce, Palisades
JRSchepers, Palisades
ATUdrys, M-1023

OC1185-14RFG-EN03

NPDES NOTIFICATION

Apparent Difference From Daily Maximum Limitation
November 6, 1985

Plant: Palisades

Permit No: MI 0001457

Outfall Description: Mixing Basin Discharge
Outfall 001

Outfall Code No: 800093

Parameter: Total Residual Chlorine (TRC)

Parameter Code No: 50060

1. Date of Incident: October 28, 1985, 2157 Hours
2. Identification of specific effluent limitation or monitoring requirement affected:

Exceeded daily maximum limit of 0.20 mg/L.
3. Description of Incident:

During chlorination of "B" cooling tower, the total residual chlorine was measured at 0.24 mg/L. Certified operator reviewed data on October 30 and became aware of exceedance and corrective action.
4. Apparent Cause:

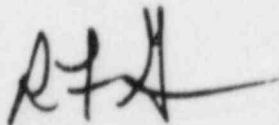
The amount of chlorine applied to the cooling tower had been raised to 60 gallons from the preceding amount of 50 gallons per chlorination.
5. If not immediately corrected, the anticipated time the condition is expected to continue:

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

The chlorination was immediately terminated. Will reduce the amount of chlorine used to 50 gallons or less during chlorination.
7. Additional Comments:

The following day 40 gallons of chlorine per cooling tower were used with the maximum amount of TRC in the discharge being 0.10 mg/L.
8. Signed:

R F Green





**Consumers
Power
Company**

COPY

November 4, 1985

Mr Fred Morley
District Supervisor
Michigan Department of Natural Resources
Plainwell District Office Bldg
621 North Kent Street
PO Box 355
Plainwell, MI 49080

FILE NO: P10.2.1

UFI 950/72*40*05/3 years

INCIDENT NO: PAL-85-10-NC114

This is in regard to NPDES Permit No MI 0001457 for the Company's Palisades Plant. In accordance with Part II, A4, the attached "NPDES Notification," Incident No PAL-85-10-NC114, is submitted as a report of an apparent difference from the daily maximum effluent limitations for this facility.

If you have any questions regarding the attached report, please contact this office.

R F Green
Staff Environmental Planner

CC USEPA, Enforcement Division, Region V
BCC RBDeWitt, P-26-117B
VFBieszke, T-242A
JFFirlit, Palisades
BDJohnson, P-24-606
SFPierce, Palisades
JRSchepers, Palisades
ATUdrys, M-1023

OC1185-07RFG-EN03

File No P10.2.1
Incident No: PAL-85-10-NC114
UFI 950/72*40*05/3 Years

NPDES NOTIFICATION
Apparent Difference From Daily Maximum Limitation
November 4, 1985

Plant: Palisades

Permit No: MI 0001457

Outfall Description: Turbine Sump Oil
Separator (001/00F)

Outfall Code No: 800218

Parameter: Oil and Grease

Parameter Code No: 00556

1. Date of Incident: October 21, 1985 (0830 Hours)
2. Identification of specific effluent limitation or monitoring requirement affected:

Exceeded daily maximum limit 20 mg/L

3. Description of Incident:

Routine sample of the turbine sump oil separator tank on October 21, 1985 (0830 hours) was reported on October 25, 1985 to be 26.0 mg/L.

4. Apparent Cause:

During the previous week the floors in the turbine building had been scrubbed down in preparation for painting. Excess oil and dirt on the floor was subsequently rinsed to the turbine floor drains and eventually the oil water separator.

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

NA

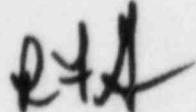
6. Corrective Action - The following corrective action was taken or will be taken to reduce, eliminate and prevent recurrence:

None required. Second sample taken on October 25, 1985 to ensure return to normal operation had 11.7 mg/L.

7. Additional Comments:

Believed this to be an isolated event. Previous weekly sampling had 8.3 and 8.0 mg/L. Oil depth in the turbine sump oil separator tank was 1/16 inch on October 24, 1985. No oil removal equipment had been bypassed. No oil was observed on mixing base discharge or on the lake before, during or after the incident.

8. Signed:

R F Green 

RP1185-07RFG-EN03-TP15



**Consumers
Power
Company**

COPY

October 4, 1985

Mr Fred Morley
District Supervisor
Plainwell District Office Building
621 North Tenth Street, PO Box 355
Plainwell, MI 49080

FILE NO: P10.2.1
UFI NO: 950/72*40*05/3 Years

INCIDENT NO: PAL-85-09-NC113

This is in regard to NPDES Permit No MI 0001457 for the Company's Palisades Plant. In accordance with Part II, A4, the attached "NPDES Notification," Incident No PAL-85-09-NC113, is submitted as a report of an apparent difference from the daily maximum effluent limitations for this facility.

If you have any questions regarding the attached report, please contact this office.

Ralph F Green
Staff Environmental Planner

CC USEPA, Enforcement Division, Region V
BCC RBDeWitt, P-26-117B
KFBieszke, P-24-329
BDJohnson, P-24-606
ATUdrys, M-1023
SFPierce, Palisades
JRSchepers, Palisades
JFFirlit, Palisades

OC1085-07RFG-EN03

NPDES NOTIFICATION
Apparent Difference From Daily Maximum Limitation
October 4, 1985

Plant: Palisades

Permit No: MI 0001457

Outfall Description: Turbine Sump Oil Separator
Outfall 001/00F

Outfall Code No: 800218

Parameter: Oil and Grease

Parameter Code No: 00556

1. Date of Incident: 9/21/85 - 1745 Hours
2. Identification of specific effluent limitation or monitoring requirement affected:

Oil and grease daily maximum limit of 20 mg/L

3. Description of Incident:

The oil/water separator was removed from service on 9/20/85 for scheduled cleaning and maintenance. An extra sample for Outfall 00F collected at 1745 hours on 9/21/85 during this cleaning measured 34.2 mg/L oil and grease. The sample results were received on 9/26/85. The turbine sump oil separator tank (2,000 gallon capacity) prior to Outfall 00F remained in service during this cleanout period.

4. Apparent Cause:

The oil/water separator was due for maintenance and cleaning after eight months of service. The oil separator tank was left in service to remove oil and grease from the effluent; however, it apparently failed to remove sufficient oil to maintain compliance with effluent limits.

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:

This incident is an isolated occurrence and is not expected to reoccur. Emptied the oil separator tank and cleaned the oil skimmers and replaced the oil absorbent. The oil/water separator was returned to service at 1305 hours on 9/21/85. The oil/water separator tank remained in service. A sample for Outfall 00F collected on 9/23/85 measured 8.5 mg/L oil and grease.

7. Additional Comments:

The outfall observation of 9/21/85 showed no oil visible in the discharge.

8. Signed: Ralph F Green

RFG - 10/4/85



Consumers
Power
Company

COPY

September 12, 1985

Mr Fred Morley
District Supervisor
Plainwell District Office Building
621 North Tenth Street
PO Box 355
Plainwell, MI 49080

FILE NO: P10.2.1
UFI No: 950/72*40*05/50 Years

INCIDENT NO: PAL-85-09-NC112

This is in regard to NPDES Permit No MI 0001457 for the Company's Palisades Plant. In accordance with Part II, A4, the attached "NPDES Notification," Incident No PAL-85-09-NC112, is submitted as a report of an unusual characteristic of the discharge for this facility.

If you have any questions regarding the attached report, please contact this office.

RFG

R F Green
Staff Environmental Planner

CC USEPA Enforcement Division, Region V
BCC DHAndrews, Palisades
KFBieszke, P-24-329
JFFirlit, Palisades
BDJohnson, P-24-606
JRSchepers, Palisades
ATUdrys, M-1023

OC0985-23RFG-EN03

NPDES NOTIFICATION
Unusual Characteristic of Discharge
September 12, 1985

Plant: Palisades

Permit No: MI 0001457

Outfall Description: Cooling Tower Suction Basin
Overflow

Outfall Code No: 00A/00B-001

Parameter: Outfall Observation

Parameter Code No: (01300?)

1. Date of Incident: 09/08/85, 0926 Hours to 09/08/85, 1600 Hours
2. Identification of specific effluent limitation or monitoring requirement affected:

The receiving water shall contain no unnatural... oil film... in quantities which are or may become injurious to any designated use as a result of this discharge.

3. Description of Incident:

Oil from an as yet unknown source surfaced in the makeup basins overflowing to the mixing basin and into Lake Michigan. About ten gallons of turbine lube oil were involved. Sufficient oil in B pump basin to gather into globules; oil in Lake Michigan sufficient to yield rainbow colors about 50 feet out into the lake (about one-half gallon per acre).

4. Apparent Cause:

Unknown at this time.

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:

Sorbent booms were placed in the makeup basins and a sweep was placed in Lake Michigan. Testing of main lube oil coolers will be done to locate oil source.

7. Additional Comments:

The MWRC hotline was contacted at 09/09/85, 1415 hours. The US Coast Guard inspected at 09/08/85, 1720 hours and were satisfied with our corrective actions.

8. Signed:

R F Green

R F Green 9/12/85

RP0985-23RFG-EN03



**Consumers
Power
Company**

COPY

September 3, 1985

Mr Fred Morley
District Supervisor
Plainwell District Office Building
621 North 10th Street
PO Box 355
Plainwell, MI 49080

FILE NO: P10.2.1

UFI NO: 950/72*40*05/50 Years

INCIDENT NO: PAL-85-08-AD111

This is in regard to NPDES Permit No MI 0001457 for the Company's Palisades Plant. In accordance with Part II, A4, the attached "NPDES Notification," Incident No PAL-85-08-AD111, is submitted as a report of an unusual characteristic of the discharge for this facility.

If you have any questions regarding the attached report, please contact this office.

RFG

R F Green
Senior Environmental Planner

CC USEPA, Enforcement Division, Region V
BCC DHAndrews, Palisades
KFBieszke, P-24-329
JFFirlit, Palisades
BDJohnson, P-24-606
JRSchepers, Palisades
ATUdrys, M-1023

NPDES NOTIFICATION
Unusual Characteristic of Discharge
September 3, 1985

Plant: Palisades

Permit No: MI 0001457

Outfall Description: Cooling Tower Suction
Basin's Overflow

Outfall Code No: 00A/00B-001

Parameter: Outfall Observation

Parameter Code No: (01300?)

1. Date of Incident:

08-24-85 1512 hours to 08-26-85 1700 hours and 08-29-85 0800 hours to
08-29-85 0830 hours

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

Oil released from the cooling towers was observed to cause a sheen in Lake
Michigan in the immediate area of the discharge only. No oil was visible
along the shoreline at any time.

3. Description of Incident:

Shortly after starting each cooling tower pump, lubricating oil was observed
in the makeup mixing basins. Estimated at less than two gallons of oil.

4. Apparent Cause:

An accumulation of oil in the cooling towers was washed through the cooling
system upon start-up of the cooling tower pumps.

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:

Placed and replace absorbent pillows in each makeup basin and in the mixing
basin to collect oil and prevent its release. Sampled various systems
to determine source of oil. None observed. A&B Industrial placed double
oil booms in the makeup basin to eliminate discharges. These booms were
subsequently replaced. Examined each cooling tower fan motor and gearbox
for oil leaks and generate Maintenance Order to repair such leaks.

7. Additional Comments:

Reported to MWRC Hotline at 1620 hours August 24, 1985. Notified MDNR Plainwell District Office at 1040 hours on August 26, 1985. See attached sequence of events.

8. Signed:

R F Green

RFA 9/3/85

Oil Release to Lake Michigan During Start Up of
Cooling Tower Systems

Sequence of Events

Wednesday August 21, 1985

NOTE: Plant in Cold Shutdown

1055 In preparation to heat up the plant, Operations fills the cooling towers and main condenser water boxes.

1220 Operations starts up P-39A cooling tower pump.

Thursday August 22, 1985

0825 During daily observation of discharge basin, Chemistry Technician observes small amounts of oil in make up basins and mixing basin and reports same to Shift Supervisor. The oil observed in the mixing basin was only in the quiet corners where the surface was stable. There was no oil observed in Lake Michigan.

Operations Department placed several absorbant pillows in each make up basin and in the mixing basin to collect the oil and prevent its release.

Notifications to MIDNR were not considered necessary as no oil was observed in the lake.

Saturday August 24, 1985

1445 Operations starts P-39B cooling tower pump.

1512 Security Officer notifies Chemistry Department that there was oil in the make up basins, mixing basin and in Lake Michigan. Chemistry Department notified Shift Supervisor and attempted to notify Environmental Coordinator.

1546 Shift Supervisor notified Duty and Call Superintendent.

1620 Duty and Call Superintendent notified Michigan "Pollution Emergency Assessment System (PEAS)" and USEPA National Response Center.

Operations Department replaced the absorbant pillows and increased the number in each of the three basins.

1900 No oil visible in lake at this time, event considered terminated.

Monday August 26, 1985

0900 Oil observed leaking through seams between pillows in make up basin into mixing basin and on/out into Lake Michigan. The oil in the make up basin was enough to just give colors to the sheen while in the mixing basin and in Lake Michigan a sheen was observed in places but with NO color.

1000 Sampled main lube oil coolers, no oil observed in sample.

1015 Notified Ward Wilson of CPCo Environmental Department of reinitiation of event.

1040 Notified Fred Morley of Plainwell Surface Water Quality Division Michigan DNR of reinitiation of event.

1100 Observed S.W. sight glasses on outlet of each feed pump oil cooler, no indication of oil. Sampled outlet of cond. pump oil cooler, no oil observed in sample.

1300 Called A&B Industrial to place booms in discharge to control oil.

1700 Operations secured blowdowns on each tower.

A&B has booms in place in make up basin.

2000 No oil observed in mixing basin or lake.

Tuesday August 27, 1985

0800 No new oil observed in make up basins. Assumption made that no more oil entering system.

1100 Observation of basins same as above.

Remedial Actions Proposed

1. Examine S.W. out of each lube oil cooler for presence of oil.
2. Shut off C/T blowdowns to ensure all water from cooling towers passes under booms.
3. Examine S.W. suction bays for oil.
4. Examine cooling tower cold wells for oil.
5. Examine cooling tower cavities for oil.
6. Examine each cooling tower fan motor and gear box for oil leaks, generated Maintenance Order for any motor or gear box exhibiting leaks.
7. Maintain booms in make up basin for a minimum of seven days to insure no recurrence of event.



**Consumers
Power
Company**

COPY

General Offices: 212 West Michigan Avenue, Jackson, MI 49201 • (517) 788-0550

June 4, 1985

Mr Fred Morley
District Supervisor
Plainwell District Office Building
621 North Tenth Street
PO Box 355
Plainwell, MI 49080

FILE NO: P10.2.1

INCIDENT NO: PAL-85-05-NC110

This is in regard to NPDES Permit No MI 0001457 for the Company's Palisades Plant. In accordance with Part II, A4, the attached "NPDES Notification," Incident No PAL-85-05-NC110, is submitted as a report of an apparent difference from the daily minimum effluent limitations for this facility.

If you have any questions regarding the attached report, please contact this office.

Ronald L Fobes

R L Fobes
Senior Environmental Advisor

CC USEPA, Enforcement Division, Region V
BCC RBDeWitt, P-26-117B
KFBieszke, P-24-329
JFFirlit, Palisades
BDJohnson, P-24-606
SFPierce, Palisades
JRSchepers, Palisades
ATUdry, M-1023

OC0585-0032A-TP15-TP05

NPDES NOTIFICATION

Apparent Difference From Daily Average/Maximum Limitation
June 4, 1985

Plant: Palisades

Permit No: MI 0001457

Outfall Description: Discharge to Lake Michigan
(Outfall 001)

Outfall Code No: 800095

Parameter: pH

Parameter Code No: 00400

1. Date of Incident: 5/23/85
2. Identification of specific effluent limitation or monitoring requirement affected:

pH limit of 6.0 to 9.0

3. Description of Incident:

From 12:00 M to 1:00 AM on 5/23/85, approximately 3,000 gallons of acidic demineralizer regenerants were accidentally released from the Neutralizer Tank T-921 which apparently caused the final discharge to the lake to fall below the lower pH limit of 6.0. The discharge pH may have been as low as 5.5. A grab sample collected at 1:00 AM measured 6.05 pH in the discharge, confirming the end of the apparent exceedence.

4. Apparent Cause:

The release from the neutralizer tank occurred when the tank was filled above its internal overflow standpipe. The standpipe overflows directly to the mixing basin which discharges to Lake Michigan. The tank contents had not been neutralized at the time of the overflow. The overflow occurred as a result of problems incurred during the resin bed regeneration which required extra volumes of water.

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:

The tank overfill was stopped before 1:00 AM on 5/23/85 when the regeneration was completed. Neutralization of the Tank T-921 contents was completed by 5/24/85 at 5:00 AM. The tank was released normally at that time. Maintenance was performed on the equipment which caused the malfunction during the regeneration. Maintenance was also performed on the neutralizer tank level indicator.

7. Additional Comments:

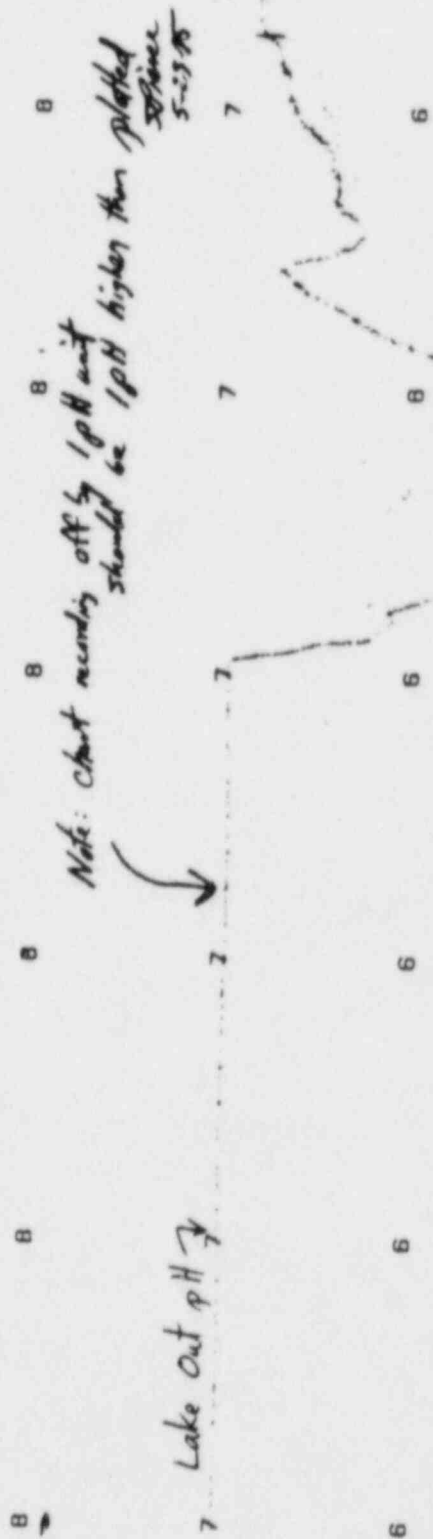
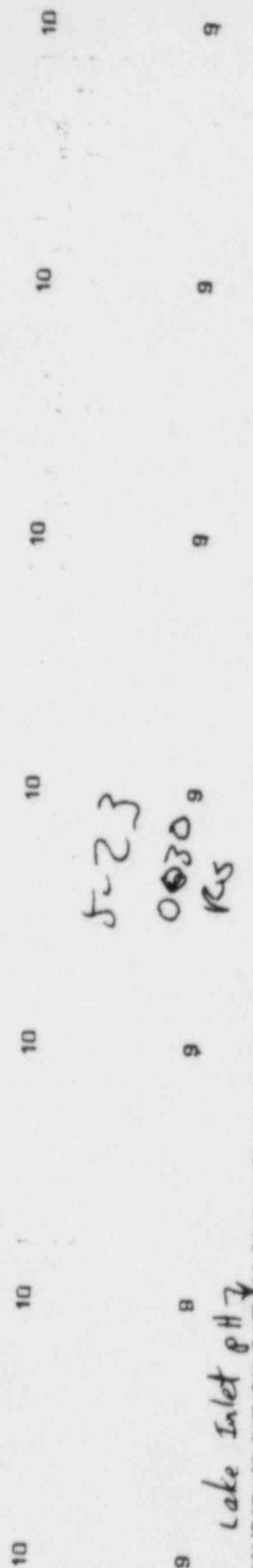
The exact pH value in the discharge could not be determined because maintenance on the primary pH monitor left a calibration error preventing measurement below 6.0 pH (see attached sheet). The "backup" pH monitor was operable but its chart recorder was undergoing maintenance at the time.

8. Signed: R L Fobes

RLF

Lake Out pH recorder

pHR-1312



Estimated pH 5.5 (actual) NPPES not. and End Report Initiated 5/23/75



**Consumers
Power
Company**

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General Offices: 212 West Michigan Avenue, Jackson, MI 49201 • (517) 788-0550

June 3 1985

Mr Fred Morley
District Supervisor
Plainwell District Office Building
621 North Tenth Street
PO Box 355
Plainwell, MI 49080

FILE NO: P10.2.1

INCIDENT NO: PAL-85-02-AD107

This is in regard to NPDES Permit No MI 0001457 for the Company's Palisades Plant. In accordance with Part II, A4, the attached "NPDES Notification," Incident No PAL-85-02-AD107, is submitted as a report of an apparent difference from the daily maximum effluent limitations for this facility.

If you have any questions regarding the attached report, please contact this office.

Ronald L Fobes

R L Fobes
Senior Environmental Advisor

CC USEPA, Enforcement Division, Region V
BCC RBDeWitt, P-26-117B
KFBieszke, P-24-329
JFFirlit, Palisades
BDJohnson, P-24-606
SFPierce, Palisades
JRSchepers, Palisades
ATUdrys, M-1023

OC0585-0032A-TP15-TP01

NPDES NOTIFICATION

Apparent Difference From Daily Average/Maximum Limitation
June 3, 1985

Plant: Palisades

Permit No: MI 0001457

Outfall Description: Turbine Sump Oil Separator
Discharge (OOG)

Outfall Code No: 800218

Parameter: Oil and Grease (Freon)

Parameter Code No: 00556

1. Date of Incident: 2/4/85, 2/10/85 and 2/11/85
2. Identification of specific effluent limitation or monitoring requirement affected:

Oil and grease daily maximum limitation of 20 mg/L
3. Description of Incident:

Routine weekly grab samples for oil and grease collected from the internal monitoring point, Outfall OOG (Tank T-41), on 2/4/85, 2/10/85 and 2/11/85, measured 58.2, 24.8 and 25.6 mg/L, respectively.
4. Apparent Cause:

Apparent oil carry-over from the new API oil waste separator to Tank T-41
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:

Performance of the new API oily waste treatment system continues to be evaluated and fine tuned to plant operations. As a result of the high readings, the interior of the separator was cleaned and accumulated oil removed from Tank T-41. The separator's oil skimming weir was adjusted to manufacturer's specifications. System performance monitoring samples were also collected and analyzed.
7. Additional Comments:

The final discharge to Lake Michigan contained no visible oil on the receiving waters.
8. Signed: R L Fobes

RLF



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Company

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June 27, 1985

M905

Mr Galen Kilmer
Groundwater Quality Division
Michigan Department of Natural Resources
621 Tenth Street
PO Box 355
Plainwell, MI 49080

REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSS -
SULFURIC ACID LOSS, PALISADES PLANT, COVERT, MICHIGAN

Enclosed is a Report of Oil, Salt or Polluting Material Losses, Form R4616, applicable to a recent sulfuric acid loss at the Company's Palisades Plant near Covert, Michigan. This loss was discovered at 4:00 AM on June 14, 1985 and reported to the Plainwell District MDNR at 9:33 AM on June 14, 1985.

Should you require any additional information regarding this matter, please contact this office.

Ronald L Fobes

R L Fobes
Senior Environmental Advisor

BC DHAndrews, Palisades
JRSchepers, Palisades
JFFir/it, Palisades
BDJohnson, P-24-606
ATUdrys, M-1023

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.

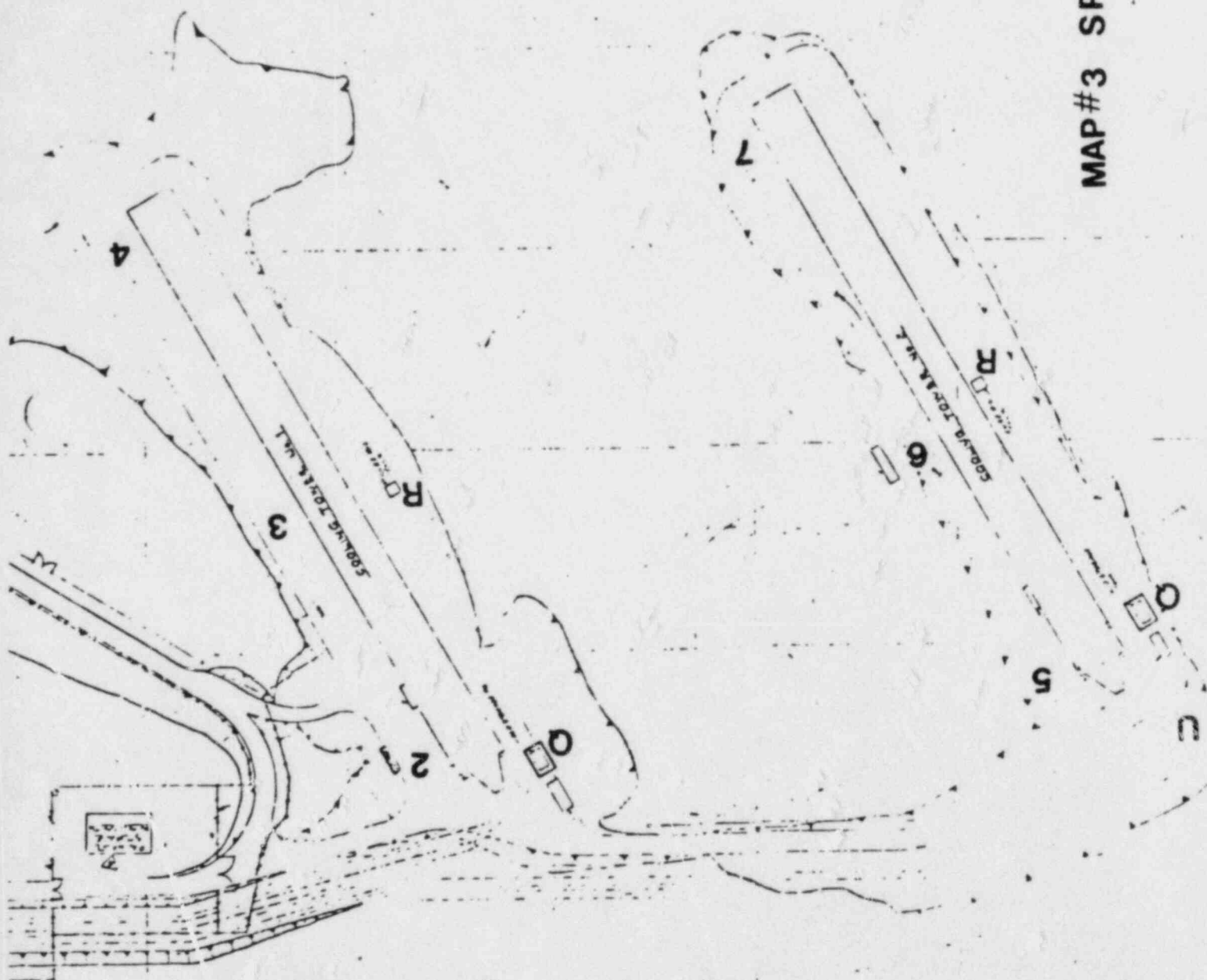
Date June 14, 1985		Company Name Consumers Power Company - Palisades Plant	
Location of Loss (Be Specific) Palisades "A" Cooling Tower (Palisades SPCC Map #3 Letter Q, attached)			
Material Lost 93% Sulfuric Acid		Amount 250 gallons (3800 #)	Name of Surface Water Involved)Not Applicable
Date Loss was Discovered June 14, 1985		Time of Discovery 0400	
Name of Department of Natural Resources Representative Contacted Galen Kilmer - MDNR, Plainwell Office			
Telephoned or Telegraphed by Whom David Andrews, Palisades Environmental Coordinator			Time 6/14/85 0933
Cause of Loss (Include Type of Equipment and Other Details) Cooling tower acid pump flange failure			
Nature of Loss (Include Complete Description of Damage) Acid filled pump basin, overflowed to building floor and ran out under walls into sand around building.			
No personal injuries reported.			
Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.) A&B Industrial (a division of Taplin Enterprises) to remove acid and acid sand under superfund emergency response action (June 14, 1985 authorization attached. Investigation into means to eliminate future losses will be performed and the results reported to the Agency.			
Company Name Consumers Power Company		By (Signature) DHAndrews/RLFobes	

24-Hr Emergency Notification Number
(800) 292-4706

Return this form to:

Environmental Department
Parnall Road
Jackson, Michigan

MAP #3 SPCC/PIP



2



**Consumers
Power
Company**

Palisades Nuclear Plant 27780 Blue Star Memorial Highway, Covert, MI 49043

June 14, 1985

Taplin Enterprises
570 West Michigan
Kalamazoo, MI 49007

RE: PALISADES PLANT
REMOVAL OF SULFURIC ACID AND ACID LADEN SAND

You are hereby authorized to immediately proceed on the removal of sulfuric acid and acid laden sand in accordance with the Emergency Work Section of our General Order Number 6. The work shall be performed on a time and material basis and shall be subject to the terms of a written agreement.

A contract for this work is being prepared and will be issued as soon as possible.

Joseph F. Firlit
General Manager
Palisades Nuclear Plant

CC: DHAndrews, Palisades
JFF85*190
RLPerry, Palisades



**Consumers
Power
Company**

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JUL 1 8 1985

NUCLEAR LICENSING

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July 16, 1985

M905

Mr Galen Kilmer
Groundwater Quality Division
Michigan Department of Natural Resources
621 Tenth Street
PO Box 355
Plainwell, MI 49080

REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSS -
SULFURIC ACID LOSS, PALISADES PLANT, COVERT, MICHIGAN

Enclosed is a Report of Oil, Salt or Polluting Material Losses, Form R4616, applicable to a recent sulfuric acid loss at the Company's Palisades Plant near Covert, Michigan. This loss was discovered at 1:50 PM on July 6, 1985 and reported to the Plainwell District MDNR at 10:32 AM on July 8, 1985.

Should you require any additional information regarding this matter, please contact this office.

Ronald L Fobes

R L Fobes
Senior Environmental Advisor

BCC DHAndrews, Palisades
JRSchepers, Palisades
JFFirlit, Palisades
BDJohnson, P-24-606
ATUdrys, M-1023

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 July 8, 1985		Company Name Consumers Power Company-Palisades Nuclear Plant	
Location of Loss (Be Specific) "A" Cooling Tower Acid Trench (SPCC Map 3 Location Q (Tower #1))			
Material Lost Sulfuric Acid		Amount 10 gallons of 13% Acid	Name of Surface Water Involved NONE
Date Loss was Discovered July 6, 1985		Time of Discovery 1350	
Name of Department of Natural Resources Representative Contacted Rich Sadowski			
Telephoned or Telegraphed by Whom Dave Andrews			Time 10:32 7/8/85
Cause of Loss (Include Type of Equipment and Other Details) Break in acid line on pump discharge to cooling towers.			
Nature of Loss (Include Complete Description of Damage) The majority of the acid was contained in the trench and pumped into the tower. The trench was analyzed at 13% acid; therefore, about 1 gallon escaped the trench and ran down the road (about 5-10 gallons of total liquid). This liquid was diluted with water then neutralized with lime. The entire area around and within the trench has been covered			
Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc) with lime to neutralize the acid. This lime will be placed in DOT 55 gallon drums for disposal. Plant Management recognizes the seriousness of this problem and has launched a concerted effort to provide a suitable solution to this problem.			
Company Name Consumers Power Company-Palisades		By (Signature) DHAndrews/RLFobes <i>RLF</i>	

24-Hr Emergency Notification Number
(800) 292-4706

Return this form to:

Environmental Department
Parnall Road
Jackson, Michigan

RP0785-0011A-EN03

R4616
10/73



**Consumers
Power
Company**

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AUG 12 1985

NUCLEAR LICENSE

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

August 9, 1985

M905

Mr Galen Kilmer
Groundwater Quality Division
Michigan Department of Natural Resources
621 Tenth Street
PO Box 355
Plainwell, MI 49080

REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSS -
FUEL OIL LOSS, PALISADES PLANT, COVERT, MICHIGAN

Enclosed is a Report of Oil, Salt or Polluting Material Losses, Form R4616, applicable to a recent fuel oil loss at the Company's Palisades Plant near Covert, Michigan. This loss was discovered at 12:30 PM on July 31, 1985 and reported to the Plainwell District MDNR at 4:30 PM on July 31, 1985.

Should you require any additional information regarding this matter, please contact this office.

Ronald L Fobes

R L Fobes
Senior Environmental Advisor

BCC DHAndrews, Palisades
JRSchepers, Palisades
JFFirlit, Palisades
BDJohnson, P-24-606
ATUdrys, M-1023

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 August 9, 1985		Company Name Consumers Power Company	
Location of Loss (Be Specific) Palisades Nuclear Plant - SPCC Map 2, Location B (Fuel Oil Storage Tank T-10 fill connection) to storm drain adjacent to T-10 at south end of turbine building			
Material Lost #2 Fuel Oil	Amount Approx 10 gallons	Name of Surface Water Involved Lake Michigan	
Date Loss was Discovered 7/31/85		Time of Discovery 12:30	
Name of Department of Natural Resources Representative Contacted John Vollmer - Plainwell District MDNR, who stated at the reporting time that no further notification was necessary.			
Telephoned or Telegraphed by Whom Stan Pierce			Time 7/31/85 16:30
Cause of Loss (Include Type of Equipment and Other Details) An equipment malfunction caused an unexpected shutdown and malfunction of "A" cooling tower water flow controls. A surge of water in the cooling tower basin caused an overflow of the basins. This flood of water collected at the south end of the turbine building, filling a 55 gal barrel with water. The partially buried 55 gal drum is used as a catch basin during fuel unloading at the T-10 fill connection. The residual fuel oil (Cont on Page 2)			
Nature of Loss (Include Complete Description of Damage) The lake was checked at the discharge point; no oil was seen on the receiving waters. The beach south of the plant was checked since the prevailing winds were from the northwest. No oil could be seen on the beach.			
Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc) The malfunction of the cooling tower water flow control system, which resulted in the flooding situation, was an isolated incident and is not expected to recur. The oil drum was emptied of its remaining oil and the area cleaned of recoverable oil around the storm drain.			
Company Name Consumers Power Company-Palisades		By (Signature) DHAndrews/RLFobes <i>RZFobes</i>	

24-Hr Emergency Notification Number
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Return this form to:

Environmental Department
Parnall Road
Jackson, Michigan

Page 2

Cause of Loss (Contd)

in the barrel was partially dispensed into the flood water and a portion was lost to the lake via the storm drains when the flood water drained away.



**Consumers
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August 30, 1985

M905

Mr Fred Morley
Surface Water Quality Division
Michigan Department of Natural Resources
621 Tenth Street
PO Box 355
Plainwell, MI 49080

REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSS -
SULFURIC ACID LOSS, PALISADES PLANT, COVERT, MICHIGAN

Enclosed is a Report of Oil, Salt or Polluting Material Losses, Form R4616, applicable to a recent incident of lubricating oil loss at the Company's Palisades Plant near Covert, Michigan. This loss was observed at 1512 PM on Saturday, August 24, 1985 and reported to the Michigan Water Resources Commission Hotline at 1620 PM on that day.

Should you require any additional information regarding this matter, please contact this office.

P C Hittle
Director of Environmental Department

By *Michael R. Putnam*

BCC DHAndrews, Palisades
JRSchepers, Palisades
JFFirlit, Palisades
BDJohnson, P-24-606
ATUdry, M-1023

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 August 30, 1985		Company Name Consumers Power Company	
Location of Loss (Be Specific) Palisades Plant Outfall 00A/00B - 001 Cooling Tower Suction Basin Overflow			
Material Lost Lubricating Oil	Amount Est less than 2 gals	Name of Surface Water Involved Lake Michigan	
Date Loss was Discovered August 22, 1985*		Time of Discovery 0825 *	
Name of Department of Natural Resources Representative Contacted PEAS System Operator			
Telephoned or Telegraphed by Whom PFBruce			Time 8/24/85 1620
Cause of Loss (Include Type of Equipment and Other Details) An accumulation of oil in the cooling towers was washed through the cooling system upon startup.			
Nature of Loss (Include Complete Description of Damage) The oil released to Lake Michigan caused a sheen in the immediate area of the discharge only. No oil was visible along shoreline at any time during incident.			
Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.) A&B Industrial placed double oil booms in the makeup basins on Monday at about 1700 hours to eliminate discharges.			
Company Name Consumers Power Company		By (Signature) DHAndrews/MRPutnam	

24-Hr Emergency Notification Number
(800) 292-4706

Return this form to:

Environmental Department
Parnall Road
Jackson, Michigan

*First Discovery -See Attach Time Line

RP0885-0061A-EN03

R4616
10/73

Oil Release to Lake Michigan During Start Up of
Cooling Tower Systems

Sequence of Events

Wednesday August 21, 1985

NOTE: Plant in Cold Shutdown

1055 In preparation to heat up the plant, Operations fills the cooling towers and main condenser water boxes.

2220 Operations starts up P-39A cooling tower pump.

Thursday August 22, 1985

0825 During daily observation of discharge basin, Chemistry Technician observes small amounts of oil in make up basins and mixing basin and reports same to Shift Supervisor. The oil observed in the mixing basin was only in the quiet corners where the surface was stable. There was no oil observed in Lake Michigan.

Operations Department placed several absorbant pillows in each make up basin and in the mixing basin to collect the oil and prevent its release.

Notifications to MIDNR were not considered necessary as no oil was observed in the lake.

Saturday August 24, 1985

1445 Operations starts P-39B cooling tower pump.

1512 Security Officer notifies Chemistry Department that there was oil in the make up basins, mixing basin and in Lake Michigan. Chemistry Department notified Shift Supervisor and attempted to notify Environmental Coordinator.

1546 Shift Supervisor notified Duty and Call Superintendent.

1620 Duty and Call Superintendent notified Michigan "Pollution Emergency Assessment System (PEAS)" and USEPA National Response Center.

Operations Department replaced the absorbant pillows and increased the number in each of the three basins.

1900 No oil visible in lake at this time, event considered terminated.

Monday August 26, 1985

0900 Oil observed leaking through seams between pillows in make up basin into mixing basin and on/out into Lake Michigan. The oil in the make up basin was enough to just give colors to the sheen while in the mixing basin and in Lake Michigan a sheen was observed in places but with NO color.

1000 Sampled main lube oil coolers, no oil observed in sample.

1015 Notified Ward Wilson of CPCo Environmental Department of reinitiation of event.

1040 Notified Fred Morley of Plainwell Surface Water Quality Division Michigan DNR of reinitiation of event.

1100 Observed S.W. sight glasses on outlet of each feed pump oil cooler, no indication of oil. Sampled outlet of cond. pump oil cooler, no oil observed in sample.

1300 Called A&B Industrial to place booms in discharge to control oil.

1700 Operations secured blowdowns on each tower.

A&B has booms in place in make up basin.

2000 No oil observed in mixing basin or lake.

Tuesday August 27, 1985

0800 No new oil observed in make up basins. Assumption made that no more oil entering system.

1200 Observation of basins same as above.

Remedial Actions Proposed

1. Examine S.W. out of each lube oil cooler for presence of oil
2. Shut off C/T blowdowns to ensure all water from cooling towers passes under booms.
3. Examine S.W. suction bays for oil.
4. Examine cooling tower cold wells for oil.
5. Examine cooling tower cavities for oil.
6. Examine each cooling tower fan motor and gear box for oil leaks, generated Maintenance Order for any motor or gear box exhibiting leaks.
7. Maintain booms in make up basin for a minimum of seven days to insure no reoccurrence of event.



**Consumers
Power
Company**

COPY

September 5, 1985

M905

Mr Fred Morley
Michigan Department of Natural Resources
Surface Water Quality Division
621 Tenth Street
PO Box 355
Plainwell, MI 49080

REPORT OF OIL, SALT, OR POLLUTING MATERIAL LOSS -
LUBRICATING OIL LOSS, PALISADES PLANT, COVERT, MICHIGAN

Enclosed is Report of Oil, Salt or Polluting Material Losses, Form 4616, applicable to a minor recurrence of a recent lubricating oil loss at the Company's Palisades Plant near Covert, Michigan. This loss was observed at 0800 hrs on Thursday, August 29, 1985 and reported to you at the MDNR Plainwell District at 0840 hours on that day. The previous oil loss report was submitted August 30, 1985.

Should you require any additional information regarding this matter, please contact this office.

RLF
R L Fobes
Senior Environmental Advisor

BCC ATUdrys, M-1023
DHAndrews, Palisades
JFFirlit, Palisades
JRSchepers, Palisades
BDJohnson, P-24-606

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 August 30, 1985		Company Name Consumers Power Company	
Location of Loss (Be Specific) Outfall 001-00A/00B Cooling Tower Suction Basin Overflow to Lake Michigan			
Material Lost Lubricating Oil		Amount Less than 1 Gallon	Name of Surface Water Involved Lake Michigan
Date Loss was Discovered August 29, 1985		Time of Discovery 0800	
Name of Department of Natural Resources Representative Contacted Fred Morley - Plainwell DNR SWQ Section			
Telephoned or Telegraphed by Whom Dave Andrews			Time 0840
Cause of Loss (Include Type of Equipment and Other Details) A small amount of oil entered the makeup basins either from cooling towers or service water systems.			
Nature of Loss (Include Complete Description of Damage) There were no visible effects of the oil release.			
Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.) Plant Engineering support is evaluating possible sources of leakage to correct the problem.			
Company Name Consumers Power Company		By (Signature) DHAndrews/RLFobes <i>RLF</i>	

24-Hr Emergency Notification Number
(800) 292-4706

Return this form to:

Environmental Department
Parnall Road
Jackson, Michigan



Consumers
Power
Company

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September 12, 1985

M905

Mr Fred Morley
Surface Water Quality Division
Michigan Dept of Natural Resources
621 Tenth Street
PO Box 355
Plainwell, MI 49201

REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSS -
TURBINE LUBE OIL AT PALISADES PLANT, COVERT, MICHIGAN

Enclosed please find a Report of Oil, Salt or Polluting Material Losses, Form R4616, applicable to a recent incident of turbine lubricating oil loss at the Company's Palisades Plant near Covert, Michigan. This loss was discovered at 9:26 AM on Sunday, September 8, 1985 and reported to the Michigan Water Resources Commission Hotline at 14:15 PM on that same day.

Should you require any additional information regarding this matter, please contact this office.

P C Hittle
Director, Environmental Department

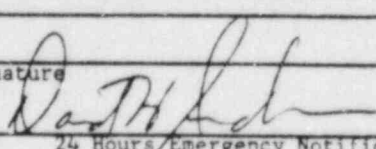
By *MRP*

BCC DHAndrews, Palisades
JRSchepers, Palisades
JFFirlit, Palisades
BDJohnson, P-24-606
ATUdrys, Palisades

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	
September 9, 1985	Consumers Power Company	
Location of Loss (Be Specific)		
Palisades Plant - Discharge to Lake Michigan 001 from 00A/00B Ct Pump Basins		
Material Lost	Amount	Name of Surface Water Involved
Turbine Lube Oil	10 gallons	Lake Michigan
Date Loss was Discovered	Time of Discovery	
September 8, 1985	0926	
Name of Department of Natural Resources Representative Contacted		
M. DNR PEAS Op #21		
Telephoned or Telegraphed by Whom	Time	
D.H. Andrews	14:15	
Cause of Loss (Include Type of Equipment and Other Details)		
Unknown at this time - Turbine Lube Oil Cooler is suspect.		
Nature of Loss (Include Complete Description of Damage)		
Sufficient oil in B pump basin to gather into globules, oil in Lake Michigan sufficient to yield rainbow colors about 50' out into lake. (1/2 gallon acre)		
Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.)		
Evaluation is in progress centering on turbine main lube oil coolers.		
* USCG Inspected 9/8/85 @ 1720		
Company Name	By Signature	
CPCo		
24 Hours Emergency Notification Number: (800) 292-4706		



**Consumers
Power
Company**

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September 25, 1985

M905

Mr Galen Kilmer
Groundwater Quality Division
Michigan Department of Natural Resources
621 Tenth Street
PO Box 355
Plainwell, MI 49080

REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSS -
SULFURIC ACID LOSS, PALISADES PLANT, COVERT, MICHIGAN

Enclosed is a Report of Oil, Salt or Polluting Material Losses, Form R4616, applicable to a recent minor sulfuric acid loss at the Company's Palisades Plant near Covert, Michigan. This loss was discovered at 4:30 PM on September 19, 1985 and reported to the Plainwell District MDNR at 9:00 AM on September 25, 1985.

Should you require any additional information regarding this matter, please contact this office.

R L Fobes

R L Fobes
Senior Environmental Advisor

BCC DHAndrews, Palisades
JRSchepers, Palisades
JFFirlit, Palisades
BDJohnson, P-24-606
ATUdrys, M-1023

OC0985-45RLF-EN03

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSSES

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Date September 25, 1985		Company Name Consumers Power Company - Palisades Nuclear Plant	
Location of Loss (Be Specific) A Cooling Tower (SPCC Map 3, Location Q (Tower #1))			
Material Lost Sulfuric Acid		Amount Approx .3 gal H ₂ SO ₄	Name of Surface Water Involved in 25 gal H ₂ O NONE
Date Loss was Discovered September 19, 1985		Time of Discovery 1630	
Name of Department of Natural Resources Representative Contacted Galen Kilmer, Groundwater Quality Supv, Plainwell District MDNR			
Telephoned or Telegraphed by Whom Ronald L Fobes on Sept 25, 1985			Time 9:00 AM
Cause of Loss (Include Type of Equipment and Other Details) The wooden acid dilution trough developed a leak (between boards) which sprayed outside the cooling tower into acid pipe trench.			
Nature of Loss (Include Complete Description of Damage) The acid delivery pipe, concrete trench filled with the acidic water (pH 1.5) from the tower and overflowed.			
Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.) The trench contents were pumped back into the tower. A piece of Plexiglass was installed to deflect and contain the water spray within the tower. The spilled, acidic solution was neutralized in place with the excess lime that had been applied in the same area during a previous acid loss.			
Company Name Consumers Power Company			By (Signature) DH Andrews/RLFobes RLF

24-Hr Emergency Notification Number
(800) 292-4706

Return this form to:

Environmental Department
Parnall Road
Jackson, Michigan

RP0985-45RLF-EN03

R4616
10/73



**Consumers
Power
Company**

COPY

November 1, 1985

M905

Mr Galen Kilmer
Groundwater Quality Division
Michigan Department of Natural Resources
621 Tenth Street
PO Box 355
Plainwell, MI 49080

**REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSS -
SULFURIC ACID LOSS, PALISADES PLANT, COVERT, MICHIGAN**

Enclosed is a Report of Oil, Salt or Polluting Material Losses, Form R4616, applicable to a recent minor sulfuric acid loss at the Company's Palisades Plant near Covert, Michigan. This loss was discovered and reported to the Plainwell District MDNR on October 28, 1985.

Should you require any additional information regarding this matter, please contact this office.

Ronald L Fobes

R L Fobes
Senior Environmental Supervisor

BCC DHAndrews, Palisades
JRSchepers, Palisades
JFFirlit, Palisades
BDJohnson, P-24-606
ATUdrys, M-1023

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
REPORT OF OIL, SALT OR POLLUTING MATERIAL LOSSES

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Date October 28, 1985		Company Name Consumers Power Company	
Location of Loss (Be Specific) Palisades "B" Cooling Tower Acid Tank Area			
Material Lost 98% Sulfuric Acid	Amount Approx 4 Gallons	Name of Surface Water Involved None	
Date Loss was Discovered October 25, 1985		Time of Discovery 1120	
Name of Department of Natural Resources Representative Contacted John Bantjes - Plainwell Dist, MDNR			
Telephoned or Telegraphed by Whom David H Andrews			Time 1600
Cause of Loss (Include Type of Equipment and Other Details) Piping failure on acid tank fill line.			
Nature of Loss (Include Complete Description of Damage) Acid sprayed onto ground next to tank containment basin and was absorbed in the sand.			
Additional Comments (Include Method of Control, Plans for Prevention of Recurrence, etc.) Sand was picked up and placed in lined barrels for disposal.			
Company Name Consumers Power Company		By (Signature) DHAndrews/RLFobes <i>RLF</i>	

24-Hr Emergency Notification Number
(800) 292-4706

Return this form to:

Environmental Department
Parnall Road
Jackson, Michigan