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March 26, 1981

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ILL. ENVIRONMENTAL PROTECTION AGENCY
MAR 30 1981
DIV. WATER POLLUTION CONTROL
FIELD OPERATIONS SECTION REG. 2

Mr. Edward Marek
Illinois Environmental Protection Agency
Division of Water Pollution Control
Region II, Field Operations
1701 S. First Avenue
Maywood, Illinois 60153

Subject: Stormwater Runoff System
Maywood Technical Center

Dear Mr. Marek,

In conjunction with recent Agency inquiries regarding PCB removal from the subject discharges, Commonwealth Edison Company hereby submits the attached data collected since January 20, 1981. Treatment consists of addition of a polymer to remove total suspended solids which are suspected to contain the majority of PCB material. As the storm water passes from a collection sump, it is dosed with the polymer upon entering a settling basin. From this basin water passes into oil/water separators and is discharged to the Des Plaines River. Composite samples are taken at the point of discharge from the separators. Composite sampling began on January 27, 1981, while chemical feed began on January 22, 1981.

Flow estimates are obtained using the sump and vertical pump rated capacites and duration of pump operations for the water entering the treatment system. As shown on the attached table, the actual quantities of water discharges have been relatively small.

Should you have any questions on this submittal, please contact Ms. Donna Urbikas of my staff at (312)294-4452.

Sincerely,

Thomas E. Hemminger
Director of Water Quality

TEH:DAU:pc

Commonwealth Edison Company
Maywood Technical Center

Stormwater Runoff from North
Separator with Chemical Treatment(1)

Date 1981	Rainfall Inches Per Day	Total Volume, gal. or Flow, gpd(2)	Total Suspended Solids, mg/l(3)	Total PCB, ug/l(3)
1-20(4)	N.A.	N.A.(11)	21.0	8.2
1-27	N.A.	0	N.S.	N.S.
1-28	N.A.	0	N.S.	N.S.
1-29	N.A.	0	N.S.	N.S.
1-30	N.A.	0	N.S.	N.S.
2-02	N.A.	27(6)	N.S.	N.S.
2-03	N.A.	0	N.S.	N.S.
2-04	N.A.	480	N.S.	N.S.
2-05	N.A.	0	N.S.	N.S.
2-06	N.A.	0	N.S.	N.S.
2-09	N.A.	0(6)	N.S.	N.S.
2-10	N.A.	0	N.S.	N.S.
2-11	N.A.	0	N.S.	N.S.
2-13	N.A.	0(9)	N.S.	N.S.
2-17	N.A.	N.A.(8)	59.0	10.2
2-18	N.A.	0	58.0	5.2
2-19	N.A.	80	35.0	4.4
2-20	N.A.	80	35.0	1.8
2-23(5)	0.50(10)	N.A.(8)	6.0	1.8
2-24	0.60	0	61.0	10.1
2-25	0	1520	N.S.	N.S.
2-26	0	0	N.S.	N.S.
2-27	0.50	N.A.(8)	N.S.	N.S.
3-02	0.05(10)	1093(6)	N.S.	N.S.
3-03	0	80	N.S.	N.S.
3-04	0.09	0	N.S.	N.S.
3-05	0	0	N.S.	N.S.
3-06	0	0	N.S.	N.S.
3-09	0(10)	0(6)	N.S.	N.S.
3-10	0	1520	N.S.	N.S.
3-11	0.06	80	N.S.	N.S.
3-12	0	0	N.S.	N.S.

Stormwater Runoff from South
Separator with Chemical Treatment(1)

1-19(4)	N.A.	N.A.(11)	1.0	0.7
1-27	N.A.	0	N.S.	N.S.
1-28	N.A.	0	N.S.	N.S.
1-29	N.A.	0	19.0	2.3
1-30	N.A.	220	7.0	1.8
2-02	N.A.	37(6)	N.S.	N.S.
2-03	N.A.	550	N.S.	N.S.
2-04	N.A.	880	N.S.	N.S.

Stormwater Runoff from South
Separator with Chemical Treatment(1)
(continued)

Date 1981	Rainfall Inches Per Day	Total Volume, gal. or Flow, gpd(2)	Total Suspended Solids, mg/l(3)	Total PCB, ug/l(3)
2-05	N.A.	0	N.S.	N.S.
2-06	N.A.	220	N.S.	N.S.
2-09	N.A.	147(6)	N.S.	N.S.
2-10	N.A.	0	N.S.	N.S.
2-11	N.A.	0	N.S.	N.S.
2-13	N.A.	0(9)	N.S.	N.S.
2-17	N.A.	743(7)	9.0	2.3
2-18	N.A.	0	19.0	2.1
2-19	N.A.	880	41.0	3.8
2-20	N.A.	0	40.0	3.3
2-23(5)	0.5(10)	220(6)	3.0	0.8
2-24	0.6	440	39.0	3.2
2-25	0	4950	15.0	1.5
2-26	0	0	14.0	2.2
2-27	0.05	1320	16.0	1.7
3-02	0.05(10)	0(6)	6.0	0.7
3-03	0	440	20.0	1.9
3-04	0.09	440	18.0	2.3
3-05	0	0	16.0	2.4
3-06	0	10,670	10.0	N.A.
3-09	0(10)	183(6)	23.0	2.0
3-10	0	0	7.0	1.3
3-11	0.06	550	13.0	1.3
3-12	0	0	16.0	4.7

N.A. Not available.
N.S. No sample - no flow from separator.
(1) Anionic polymer used, but was changed on 3/19/81 to cationic polymer to provide better TSS removal.
(2) Estimate based on duration of pump operation located in the entrance to the treatment system.
(3) Composite samples are collected at the exit from the treatment, i.e., from the discharge from the oil/water separators.
(4) Grab sample; all others are composites.
(5) Composite sampler changed to shorter time intervals.
(6) 3-day (weekend) average.
(7) 4-day (weekend plus holiday) average.
(9) Electrical problem in timer.
(10) Total since previous measurement.
(11) Flow was occurring.

DAU:3/23/81